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Form 9-881 b (April 1952)

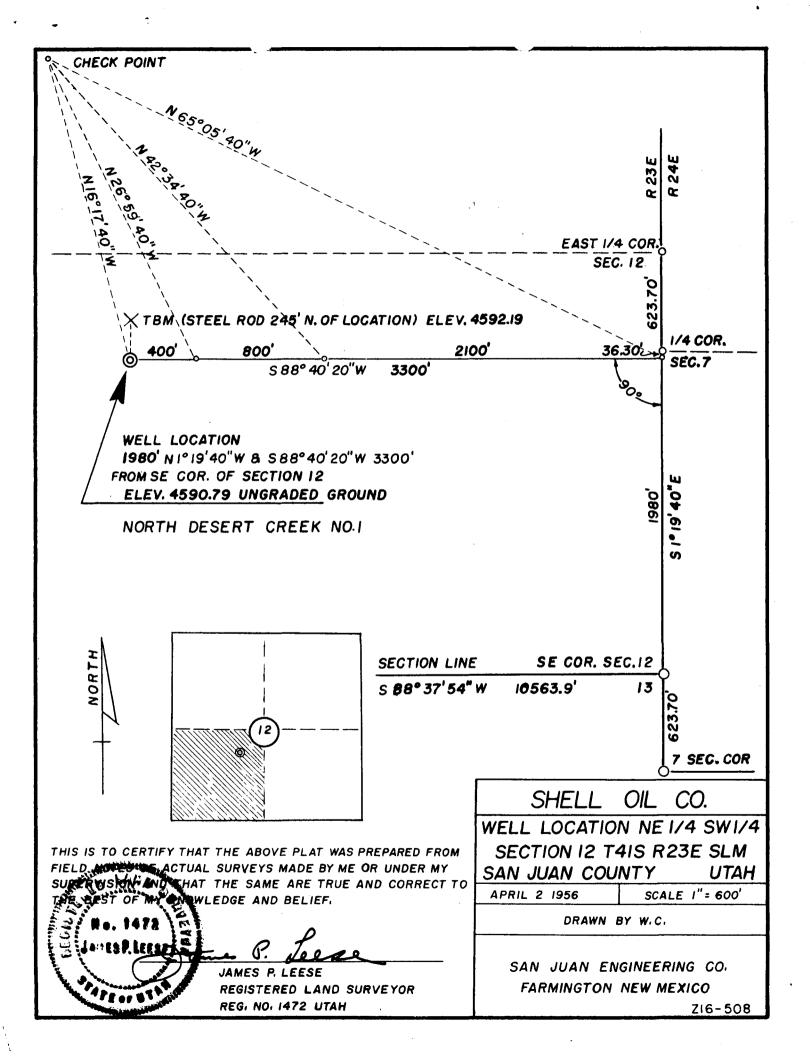
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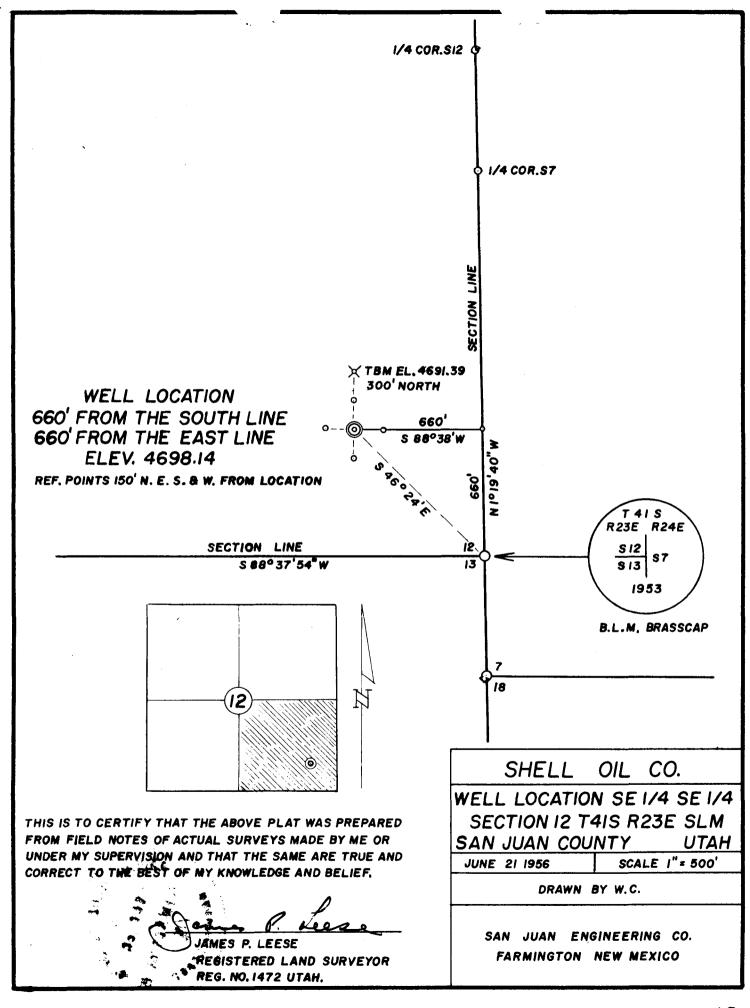
UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

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NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	l l	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.		SUBSEQUENT REPORT OF ABANDONMENT.
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Mationside Bond #7509759 with the U. S. Guarantee Co. is on file with WEELK.





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(SUBMIT IN TRIPLICATE)

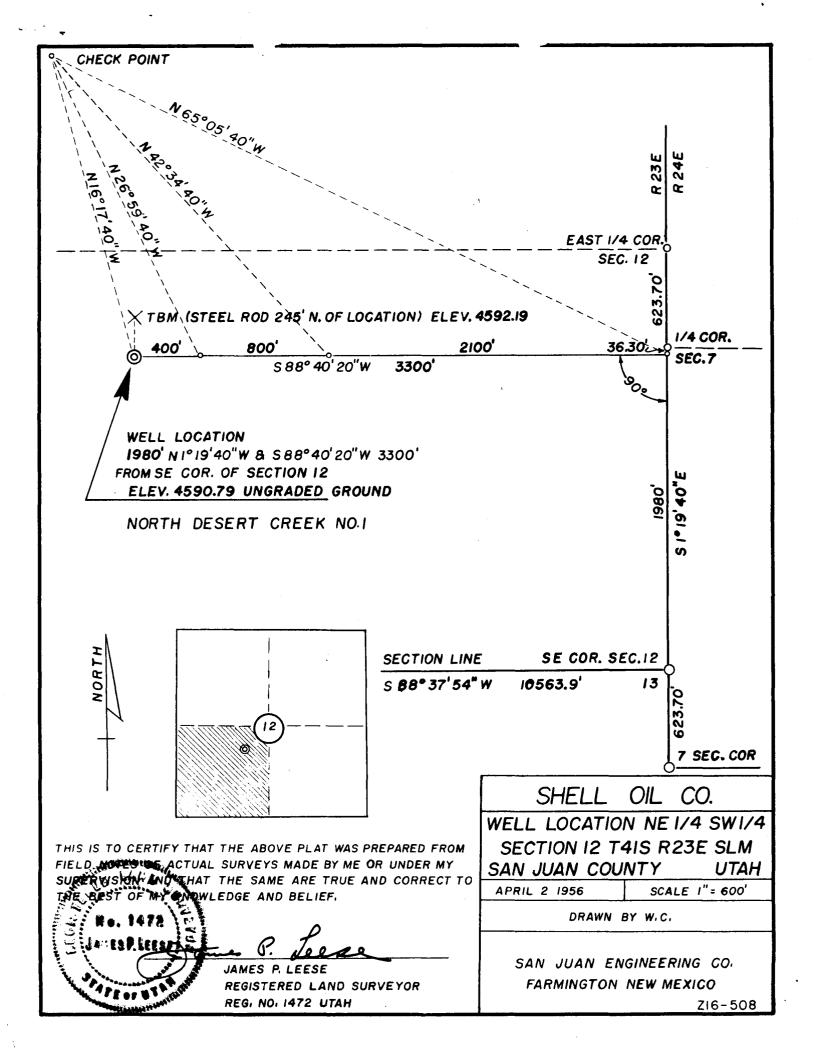
UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian Agency
Madew Resk
Allotte Tinel Lands
Lease No. 11-20-603-816

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	=	SUBSEQUENT REF	PORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PL	ANS	i ·	PORT OF SHOOTING OR ACIDIZING	
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U. S. GOVERNMENT PRINTING OFFICE 16-8437b-6



The Shell Oil Company 33 Richards Street Selt Lake City, Utah

Attn: B. W. Shepard

Gentlemen:

This is to seknowledge receipt of your notice of intention to drill Well No. North Desert Greek 1, which is to be located 1980 feet from the south line and 3500 feet from the cast line of Section 12, Township 41 South, Range 25 East, SIZM, San Juan Gounty, Utah.

Please be advised that insofar as the Utah Oil & Oas Conservation Commission is conserved approval to drill said well is hereby granted.

Yours very truly.

UTAH OIL & GAS CONSERVATION COMMISSION

GLEON B FRIGHT BECRETARY

ec: Don Russell
Dist Eng
USES
Federal Eldg, City



SHELL OIL COMPANY

DESERET NEWS BUILDING

33 RICHARDS STREET

SALT LAKE CITY 1, UTAH

DAVI: 2-0471 TELEPHONE 22-04-71

June 27, 1956

State of Utah
Oil and Gas Conservation Commission
Room 105
Capitol Building
Salt Lake City 14, Utah

Gentlemen:

Attached are two copies of our U.S.G.S. Notice of Intention to Drill for North Desert Creek 1, which we submit for your approval. This location is 660' from south line and 660' from east line of Sec. 12, T. 41 S., R. 23 E., S.L.M., San Juan County, Utah.

On May 2, 1956, we submitted a Notice of Intention to Drill for North Desert Creek 1 at a location 1980' from south line and 1980' from west line of Sec. 12, T. 41 S., R. 23 E., S.L.M. The Notice was approved by your office but drilling was never commenced at this location.

Therefore, we wish to withdraw our Notice of Intention to Drill for North Desert Creek 1 dated May 2, 1956, and submit the attached Notice of Intention for the new location.

Your approval is respectfully requested.

Very truly yours,

B. W. Shepard

Exploitation Engineer

13. W. Shipard

Attachment

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

an A	rency Bove to
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Allottee .	Tribal Lands
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The Shell Oil Company 33 Richards Street Salt Lake City, Utah

Attn: B. W. Shepard

Gentlemen:

This is to acknowledge receipt of your armended notice of intention to drill Well No. North Desert Creek 1, which is located 660 feet from the south line and 660 feet from the east line of Section 12, Township 41 South, Range 23 East, SLM, San Juan County, Utah.

Please be advised that insofar as the Utah Oil & Gas Conservation Commission is conserved approval to drill said well is hereby granted.

Yours very truly,

UTAH OIL AND GAS CONSERVATION COMMISSION

CLEON B. FEIGHT SPORETARY

CBF: co

ce: Don Russell Dist. Eng. USGS

Federal Bldg, City

ROTARY ENGINEERING COMPANY

WELL LOGGING SERVICE

1221 MILE HIGH CENTER

DIAL ACOMA 2-4279

DENVER 2, COLORADO

September 14, 1996

The Shell Oil Company 33 Richards Salt Lake City, Utah

ATT: Exploitation Engineer

Gentlemen:

We are submitting to you fifteen copies of our hydrocarbon analysis log on your North Desert Crock #1, in San Juan County, Utab. The section logged was from 4410' to 5601'.

A description of the data shown on this log is given on the attached shoot.

This well was logged continuously by means of our automatic gas detecting equipment. Our Mr. Melton, who operated this equipment, also logged the outting samples for lithology, perceity and oil fluorescent cuts. The gas from outtings was run at various intervals of interest.

In reviewing the results of our log we feel that all pertinent data contained is self-explanatory. If we can be of further service in the interpretation of this log please notify us and we will be glad to call on you at your convenience.

We wish to thank you and your personnel for the consideration and cooperation shown us in securing the information on this well.

Yours very truly.

ROTARY ENGINEERING COMPANY

Clare J. Moore up

Rocky Mountain Manager

bp

(See Distribution on Page 2)

Phillips Petroleum Company - 5 501 Kerber Bullding Albuquerque, Hew Mexico ATT: Hr. Frank Adler

The Superior Oil Company - 3 930 Edison Building Los Angeles, Galifornia

1 - J. C. Cody 1 - Don Kock

1 - J. T. loeborg

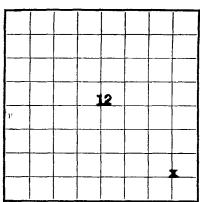
The Superior Gil Company - 2 P. C. Box 200 Camper, Syoning ACT: Mr. J. D. Simmens

The Superior Oil Company - 2 503 let Mational Bank Bldg. Denver 2, Colorado ATT: Hr. Engle

- 1. Drilling mud characteristics.
- Bit record.
- 3. The drilling rate curve plotted in minutes per foot. It will be noted this is plotted so that on fast drilling the curve approaches the left margin of the log.
- 4. Depth.
- 5. Lithology.
- 6. Visual porosity column shown next to lithology column.
- Leached residual oil units. This curve is obtained by applying solvent to the drill cuttings and
 evaluating by use of ultraviolet radition the residual liquid hydrocarbons collected on the color
 reaction plates.
- 8. The percentage of sample showing oil fluorescence when viewed under ultraviolet radiation. All mineral fluorescence is excluded from this evaluation.
- 9. Two gas curves secured from the cuttings and shown in "gas from cuttings" column. The dotted curve is obtained by analyzing the cuttings for all combustible gases. The dashed curve is obtained by burning the gas at a predetermined reduced temperature. This curve represents all combustible gases other than methane.
- Two gas curves secured from the mud return stream are plotted from the left margin of "gas from mud" column with increasing values extending to the right. The dotted curve is obtained by analyzing the mud for all combustible gases. The dashed curve is obtained by burning the gas at a predetermined reduced temperature. This curve represents all combustible gases other than methane.
- 11. Oil analyses are run on each two feet of samples.
- 12. Gas analyses are run on each two feet of samples.
- 13. All cuttings and mud samples are corrected for up-the-hole lag time.

6

Form 9-330



U. S. LAND OFFICE

| SERIAL NUMBER | TO PROSPECT | LEASE OR PERMIT TO PROSPECT | PROSPEC

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

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_		GEOLOGICAL SURVEY
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	<u>-</u>	UNITED STATES
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		U. S. LAND OFFICE SERIAL NUMBER LEASE OR PERMIT TO PROSPECT
Form 9-330		
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1,7	Fried . Vi					used, position, and results of panipage	-A-Min
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· · · sidotrackod? -or l	eft in the well - give	ta cise and location	If the well had be	an dunamitad - aiva d	eteeize-manition - and - unmha
of shots. If plugs	or bridges were put	in to test for water,	state kind of materi	al used, position, and	results of pumping or bailing
4 (1)					. 🗢

Hoaving plug - Material		cinl	PLU	PLUGS AND ADAPTERS Length			Depth sot	
Mze casing	Where	set	Number sacks			EMENTIN	G RECORD Mud gravity	Amount of mudused

FOLD | MARK

ROTARY ENGINEERING COMPANY WELL LOGGING SERVICE

COMPANY SHELL OIL (WELL NORTH DESERT FIELD SEC-12 T4IS COUNTY SAN JUAN CO.	CO CREEK NO-I R 23E		DEPTH LOS			FROM 4410 8-12-56	5606 9-1-56	
STATE UTAH.		SUPERVISING ENGINEER ART MELTON						
ELEVATION N. B. NEW BIT N. C. B. NEW CORE BIT W. L. D. B. WIRE LINE DRILLING W. L. C. B. WIRE LINE CORE BIT C. D CIRCULATED OUT N. R. NO RETURNS D. S. T. DRILL STEM TEST	LEGEND ISUAL POROSITY RACE				SAND LIMEBTO VIII BHALE SHALE AND CHERT SAND COAL LITE COAL LITE SAND GRANITE DRANITE DRANITE DRANITE	TE RITE JMERATE BHALE E		
MUD CHARACTERISTICS	OIL			GAS	UNITS	AM DIAMIT		
ORILLING RATE	O JE O PROCEST O SAMPLE O SOUTH			NO - ALL COMBUS	HAN METHANE			
MINUTES PER FOOT	O SAMPLE SHOWNES	GAS FROM	CUTTINGS			GAS FROM MUD		
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ا ا	SH,	, BRN CALC						
20	SH,	GY GN, V C	ALC.	 	1		 	
)	LS,	, LT GY, I VF	A.					
2 4	LS	LT GY I.V.E.	.					
NB Z						وروا بالمارية	;;;;	
5 60	WH	IT-LT GY, SLI	AREN, CHERTY	FOSS LS	(
4~		ľ						
5 "	SH	I, RED-BIRN &	GY GN, CALC.		1	·:		
4500	Ls	S, OLIVE IVE			(= 2,-1)			
		, RED-BRIN, BLI	1111	1	1	किसम्बद्धाः ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
<u>ا</u> ر ا ا ا	No-res							
NB. 5 20	SS,	, WHT, FN-MED	GRN, SUB ROD,	CALC.		*****	TRIP GAS	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							TRIP	
NS. 5	SH	L GY GN BLKY	CALC			•	<u> </u>	
٠, ١	SS,	, WHT-GY GN, V	CALC. FN-NED, SUB (RIDD, CALC.				
60	SH,	, RED-BRN, BLK	Y, CALC.			•		
80	SS SH,	LT BRN - LT GY GN, BLKY,	GN. CALC.					
5	ss,	LT GY-BRN	SILTY, V.F.G., CA	LC, ARGILL.				
4600	[,MED. GY, BL	I.V.F. A.					
		, MED GY, BL	1				111 11 11 11 11 111 11	
NB 20			ł			TRIP GAS	š.	
5	SH	I, RED — BRN,	BLKY, CALC.					
3 4								
ا ا ا	SH	, A.A. W SM	GY CALC SH.	1 1				
60						go .		
ζ -		i, WH, IVFA, AR	EN.		1	·:-:-:> ::::::::::::::::::::::::::::::::		
80	SH,	RED-BAN A.A.			· · · · · · · · · · · · · · · · · · ·	pic		
	LS Qu	LT GY, IVFA	, FOSS, ARGILL.			<u> </u>		
4700		-			<u> </u>	;; (; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	i i	
WB C		(, REO÷BRN S, TAN-LT G	CALC, GY SILI	¢ IN PART.	1	· · · · · · · · · · · · · · · · · · ·	<u>u. [</u>	
20	LS LS	WHT LT G	Y IVFA. Y, IVFA, AREN,	CHERTY.	2	\\		
[зн	, RED-BRN ,	CALC				ا بلت	
<u></u>				<u> </u>		<u> </u>	<u>.`.</u>	

	II——		·. ``
		SH, RED-BRN , CALC	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
NB S	40	LS, LT-MED GY, IVFA, SLI ARS.	
F			TRIP GAS
	60	SH, RED-BRN CALC.	
	TO THE REAL PROPERTY OF THE PR		
	80		
الح		LS, LT GY (VFA	
<u> </u>	4800	SH RED-BIRN.	Hammel Michael and Market Mark
ا الح		LS LT GY IVFA	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	20	SH VAR RED BRN GY-GN	
N.B.		LS WHT UT GY IVE A CHTY.	TRIP GAS
	40		نسريب السريب
2		SH GY CALC.	
		SH GY GN BLK SLI CALC.	
3	60	LS LT GY TAN IVFA SH GY CALC.	
<u></u>			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
NR	80	LS GY I-III VF-FA.	
ا کہ ا		LS LT MED GY V AREN, MICAC, IVFA SH GY CALC.	
- Emilahanahana	49 00 T.	LS GY IVIA	
[]		SH, VAR RED-BN, GY.	
	20	LS GY TAN IVFA	···
ا الح إ		SH GY CHI FRAG IN L.S.	
	40		2
		LS WHT-GY IVFA.	
7	60	D.S. CV IVEA WARE	
NB >		LS,GY,IV FA, V ARG	TRIP GAS
4	80	LS LT GY IVFA CHT FRAG.	
b 1	5000	LS LT MED GY IVFA.	
	+ + + + + + + + + + + + + + + + + + +	LS, MED GY-TAN, IVFA SILTY, MINOR MILKY	
NB.		SH, RED-BIRN, GY. LS, DK GY, IVFA, V ARGILL.	TRIP GAS
_	20	LS, LT GY TAN, 1VFA , AREN.	
[]		SH, RED-BRN, GY.	
	40	LS, WHT- TAN, IVFA	
1		SH, VAR, PURP, GY, GY GN, RED-BAN.	
\\\	60	SH, RED-BAN, GY.	
[[SH, GY, LS, DK GY, IVFA, V ARG. SH, MED GY, CALC.	
 	80	LS, WHT, IVFA, SILTY	
[L		SH, MED-DE GY, CALC. LS, WH-GY IFVA.	1 7 3
₹	5100		1 5-5-10 train 206-13
		SH, MED-ON GY, SUB FISS, CALC.	
T	20	-	<i>.</i>
5		LS, LT GY, IVFA.	1,5
		LS,AA,SLI SILTY	
	40	LS,AA,SLI SILTY	
5	40		
A	60	LS, AA, SLI SILTY. LS, LT GY, IVFA LS, AA, CHERTY, SILTY.	<u> </u>
		LS, LT GY, IVFA	S TEIP GS
		LS, LT GY, IVFA LS, A.A., CHERTY, SILTY SH, DK GY, CALC. LS, TAN-DK GY, IVFA, SILTY, V ARG.	S TEIP GS
	50	LS, LT GY, IVFA LS, AA, CHERTY, SILTY SH, DK GY, CALC.	S TEIP GS
	5200	LS, LT GY, IVFA LS, AA., CHERTY, SILTY. SH, DK GY, CALC. LS, TAN-DK GY, IVFA, SILTY, V ARG. LS, LT GY-TAN, IVFR & DK GY BRN, CHTY. SH, DK GY, CALC.	S TEIP GS
	5200	LS, LT GY, IVFA LS, AA., CHERTY, SILTY. SH, DK GY, CALC. LS, TAN-DK GY, IVFA, SILTY, V ARG. LS, LT GY-TAN, IVFR & DK GY BRN, CHTY. SH, DK GY, CALC.	TRIP GAS
	5200	LS, LT GY, IVFA LS, AA., CHERTY, SILTY. SH, DK GY, CALC. LS, TAN-DR GY, IVFA, SILTY, V ARG. LS, LT GY, TAN, IVFA SH, DK GY, CALC. LS, LT GY, IVFA SH, DK GY, CALC. LS, WH-LT GY, IVFA, AREN.	TRIP GAS.
	5200	LS, LT GY, IVFA LS, AA., CHERTY, SILTY. SH, DK GY, CALC. LS, TAN-DK GY, IVFA, SILTY, V ARG. LS, LT GY-TAN, IVFR & DK GY BRN, CHTY. SH, DK GY, CALC.	TRIP GAS
	5200	LS, LT GY, IVFA LS, A.A., CNERTY, SILTY SH, DK GY, CALC. LS, TAN-DK GY, IVFA, SILTY, V ARG. LS, LT GY-TAN, IVFA SH, DK GY, CALC. LS, UT GY, IVFA SH, DK GY, CALC. LS, WH-LT GY, IVFA, AREN. SH, DK GY, CALC. LS, LT GY-TAN I-III VFA	TRIP GAS.
	500 5200 20 The state of the st	LS, LT GY, IVFA LS, AA, CNERTY, SILTY SH, DK GY, CALC. LS, TAN-OK GY, IVFA, SILTY, V ANG. LS, LT GY-TAN, IVFA SH, DK GY, CALC. LS, WH-LT GY, IVFA, AREN. SH, DK GY, CALC. LS, LT GY-TAN I-III VFA SH, DK GY, CALC. LS, LT GY-TAN I-III VFA SH, MED-DK GY, LS, LT GY IVFA, CHT;	TRIP GAS.
NB S	5200	LS, LT GY, IVFA LS, A.A., CNERTY, SILTY SH, DK GY, CALC. LS, TAN-DK GY, IVFA, SILTY, V ARG. LS, LT GY-TAN, IVFA SH, DK GY, CALC. LS, UT GY, IVFA SH, DK GY, CALC. LS, WH-LT GY, IVFA, AREN. SH, DK GY, CALC. LS, LT GY-TAN I-III VFA	TRIP GAS.

17	20		
ا کے		LS, LT GY, IVFA	
	40		7, (75)
[T. Samuelland
_5		LS, LT GY, IVFA	
5	60	LS, AA., CHERTY, SILTY	TRIP GAS
·		SH, DK GY, CALC.	
4	80 11 11	LS, TAN-DR GY, IVFA, SILTY, V ARG.	
ا کے		LS, LT GY TAN, IVFA & DK GY BRN, CHT	
	5200	LS, LT GY, IVFA	The state of the state of the state of
		SH, DK GY, CALC. LS, WH-LT GY, IVFA, AREN.	TRIP GAS.
	zc 1 1 1		المنافقة ال
		SH, DK GN, CALC. LS, LT GY TAN 1-111 VFA	
5	40		المنابع المناب
3		SH, MED-DIK GY. LS, LT GY, IVFA, CHTY. LS, TAN IVFA, SLI AREN.	i i i i i i i i i i i i i i i i i i i
5		LS, TAN INFA, SLI AREN.	
		LS, TAN-BRN, IVFA, V ARG, CHTY.	
ا لا	11'11'	LS, LT GY TAN, IVFA, AREN.	
	80 11,1		
ا ط		LS, LT GY, IVFA.	
	5300		
_}		SH, DK GY, SLI CALC. LS, LT GY, IVFA.	TRIP GAS
كم ا	25 1 1 1	LS, LT GY-TAN IVFA	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
ر کے ا			
ا ك		LS, BRN, IVFA, CHTY	
-{	43 1	SH, DK GY, BLKY.	
₹	PALE YELL	S RDN WEA ON WHE W TO G	
-5-	72 J L I FLUO 8MILKY WH	LS BRN IVFA, OCC III-I F-M, TR B & C, AP	EAR
4	CUT FLS	LS. BRN-WHT SPECKED, V CHTY, IVFA	1 5.1.0
		LS, BRN, IVFA, ARG	
			7919 548
	5400	SH, DK GY BLKY	
3		LS, BRN, IVFA, W BLUE CHT.	DST NO-1 5334 - 5497 TOOL DIGNT OPEN. DST NO-2 5337-5517 NO TEST. DST NO-2A5337- 5517
	201111111111111111111111111111111111111	LS, WH-TAN, I VFA-IIIVFA, 1% YELL FLUO	TO 2HR 30 MIN, G.T.S. 39 MIN, T.S.T.M. REC 780
42	8 1	SH, BLK, V SOFT, CAUC	G G C PM SAUT 1900 PPM I FE 25 B FF 24 C4 151P - 2150 FF 20 FF 20 C6 151P - 2150 FF 20 C6
5		()))))))))))))))))))	ISIP-2150 F51P-2076 HI 2887 H.O. 2840
	2 40 Bio5	LS BRN IIYF BI-5.C.O. STRONG, OQOF	0 (
<u></u>	2A (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C C		CORE NO-1 5457- 548 3 REC 26 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ANALYZER NOT WORKIN
2		5467-71 LS, GY BRN, V FOSS UNIF STN & HLUO 5471-75 LS, GY JVFA STY STN FLUO BLW SH PTG 7 5475-80 LS, TAN LYMA UNIF STN FLUO C PGMO APPEA	
, 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RESULTS OF OSSOLVED FOSS MATERIAL 5481-83 LS, LT GY-BLK, IVFA-B3. 50% CHT, BLK IN PT W	4.
		CORE NO 2 5483-5487 REC 3 LS, MED BRN-GY III-I F-M A-BI SLI POROUS SI FRACT, BLOG OIL CRINGID RINGS B FORAMS 35% CHT, LT BLU MOTY W BRN, TRAN SL	162 739
	15500 L L L L L L L L L L L L L L L L L L		(-,-120)
	C-3 () i	CORE NO-3 5487-5517 5487-88 LS MED BRN-GY HIVF MA SLI ARG BIOCL B STOULTIC IN PI, FOSS W/ BRACHS & CHMOIDS	st ct
,	1996	PALE GOLD CUT FLUO OIL STAINED IN PILBLOS 5493-95 LS CY-L BRN III M-LA W/ ARG MATRIX.	Not co
حتے	20	5498-550 (LS. LT GY BRN III - MA-B2. PSUEGOOQLITIC, SON FRACS BI VUGS FILLED W/ CALC, GOOD SPOTTY FLUX STAINING PRED ALONG VERT FRACTS	E 12€∴160
7	C-4	CORE NO-3 5487-5517 5487-89 I.S. MED BRN-CY IIIVF- MA SLI ARG. BIOCL 5487-89 I.S. MED BRN-CY IIIVF- MA SLI ARG. BIOCL 5487-89 I.S. MED BRN-CY IIIVF- 15487-95 I.S. GY-I.I. BRN. III. JR. ALG. M. ARG. BIOCL 5483-95 I.S. GY-I.I. BRN. III. JR. ALG. M. ARG. SLI 5483-94 I.S. DK GY-I. BRN. III. JR. FA DK. GY M. SE-91. FRACS G. VUGS FILLEN W. CAA. BC. DSUEGOOD/III. SO 571AINID PRED AIGN W. CAA. BC. DSUEGOOD/III. SO 571AINID PRED BC. DSUEGOOD/III. SO 571AINID PRED AIGN W. CAA. BC. DSUEGOOD/III. SO 571AINID PRED AIGN W. CAA. BC. DSUEGOOD/III. SO 571AINID PRED AIGN W. CAA. BC. DSUEGOOD/III. SO 571AINID PRED AIGN W. CA	98 bs
	CS051 C 10-0 10	CORE NO-4 5517-5567	
₽		3513-17 LS, MED BRN-GY, INFA, FOSS WY PORR FUSILIR CORE NOT-4 5517-5567 5517-22 LS, WED-LT BRN HIFA, SLI ARG SLI FOSS 5222-22 LS, OY BRN, HIFA-92, SLARG BROSS 5222-25 CALC XYALS BRN, HIFA-W WUGS, A. V STYDLITIC 529-33 LS, MED OY BRN, HIFA, STYDLITIC APPEAR	(C) 116/46
	3	5529-33 LS, MED GY BRN, I-III VFA, STYDLITIC, APPEARS TO HAVE HORIZ FRACTS, IRREG SHALY STKS 5533-38 LS, LT-MED GY BRN, IVFA, NUM TITE HOR FR	136 1462 1612
י ב <u>ל</u>	D5-C5 019 = 5	TO HAVE HORIZ FRACTS, IRREG SHALY STKS 5533-38 IS, LT-MED GY BRN IVEA, NUM TITE HOR FR 5539-39 MED-L GY BRN I-IIIVF FA CZ, SLI ARG 3540-49 LS, MED-L BRN GY IIV F FA CZ, SLI ARG 5540-49 LS, MED L BRN GY IIV F FA CZ, SLI ARG 5540-49 LS, ST GOOD GOOR FOSS W.SN WHOLE NUM VIG SURE, GOOD GOOR FOSS W.SN WHOLE BRACH SHELLS.	* Mot co
	B 15	5545-66T LS, LT-MEDI GY, LYFCID-DIO DEAD OIL COVE NUM YUG SURF GOOD OOOR FOSS W/SM WHOLE BRACH SHELLS	770 200 (
ا مل	C-5		
7	15600		
T.D. CORRECTED TO		CORE NO-15 5567-9802 REC 33 5' 5567-70 LS, MED LT GY BRN-117A-D5 a HIFD5-C	120' (.5) 0 (986%)
5606		CORE NO-5 5567-5602 REC 33 5' 5567-70 LS, MED LT GY BRN-1-VRA-DS 8 IIIFD5-6 5570-73 LS, MED GY IVRA-DS 10 FRA 5573-79 LS, MED GY IVRA-DS 10 FRA 5573-79 LS, MED BRN IVF-FA, MED ARG 5581-83 LS, LT GY IIIVFA ARG STYOLTIC 5585-86 DOLO, LT MED GY IIRFA BS, MED ARG, SLI CALC 5585-87 DOLO, LT MED GY BRN, IIIFA ARG STYOLTIC 5585-87 DOLO, LT MED GY BRN, IIIFA ARG SLI CALC 5585-89 DOLO, DOLO MED BRN IIFA MARE ARM INCL 5585-95 DOLO, DOLO MED BRN IIFA MARE ARM INCL 5585-95 DOLO, DOLO MED BRN IIFA BRE ARM INCL 5595-95 DOLO, DOLO MED BRN IIFA BRE ARM INCL CALC, BECOMING HRD, FOSS NEAR 99 5599-5800 30% SN, BLK, SLI CALC, SLI MICAC, 559-580 DOLO, SN, BLK, SLI CALC, SLI MICAC,	120' (5) 0 (986%) 120' (5) 0 (986%) 1480 (3.7) 1460 (3.
	20	5586-86, DOLO, LT MED GY, IIIFA-B3, MED JARG, SLI C. 5586-87, DOLO, LT MED GY, IIIFA-B3, MED JARG, SLI C. 5587-91, DOLO, MED JOS BRIN, IIIFA, ARG, SLI CALC	3400 AEAR STAB 50 MIN
		5591-95 DOLO, MED BRN, IIIF, RARE ANNY INCL. 5595-99 DOLO, DOLO, MED BRN, IIIFA MED ARG, THIN SH STI CALC, BECOMING I HRD FOCE NEAD ARG, SLI	S. 0 5570 2 HR REC 50' 506CM (2.6%0) + 90'506CM (5%D)
	40	5599-5600 50% SH, BLK, SLI CALC, SLI MICAC,	3200
		5600-00,5 SH AA 5600.5-02 NOT REC	(5) 5557 2HR FLOWED GCO 500 8/D 0 (99.8%0)
	ε····································		3200
	501		

North Desert Creek

DRILLING REPORT FOR PERIOD ENDING

12 (SECTION OR LEASE)

San Juan County, Utah T415, R23E (TOWNSHIP OR RANCHO)

	(COUN						(TOWNSHIP OR RANGHO)	
DAY	DE	PTHS			REMARKS			
	FROM	то			DEVIATI O N F	REC O RD		
			D	EPTH	DEGREE	DEPTH	DEGREE	
				90	1/40	4049	1/20	
				200	1/40	4245	1/20	
				375	1///0	4453	1°	
				490	1/40	14749	1-3/40	
				699	1/4°	4764	1-1/4°	
				913	1// ¹ 0	5307	1/20	
				1132	1/40	·		
				1610	10			
				1880	3/40			
				2042	1/2°			
				2385	1/40			
				2727	1-3/4°			
				2922	2 °			
				3200	I_{0}			
				3508	1/2°			
				3638	1/2°			
				3830	1/20			
	CC	NOITION	AT BEGINNIN	NG OF PERIOD				
	HOLK		CASING SIZE	DED	TH SET			

DRILL PIPE

3-56

WELL NO.

North Desert Creek
(FIELD)
San Juan, Utah

(COUNTY)

PDEA

DRILLING REPORT

July 30, 1956

Section 12
(SECTION OR LEASE)
This, R23E, SLB&M
(TOWNSHIP OR RANCHO)

DEPTHS								
DAY			REMARKS					
1956	FROM	70	LOCATION: 660' from South line and 660' from East line of Section 12, T. 41 S., R. 23 E., S.L.B.&M., San Juan County, Utah.					
	;		ELEVATIONS: K.B. 4710.34' D.F. 4708.34' MAT. 4699.1'					
7-23	0	113	Drilled 113'. Spudded 6:00 P.M. Treated mud with gel.					
7-24	113	575	Drilled 462. Treated mud with gel.					
7-25	5 7 5	1210	Drilled 635'. Twisted off at 1020' leaving 14 drill collars in hole (top of fish 590'). Recovered fish with 7 3/8" American overshot.					
7-26	1210	1268	Drilled 58'. Circulated. Ran and cemented 1242' of 8 5/8", 32#, 8rd surface casing, set at 1255'. Cementing done by Rocky Mountain Cementers. Centralizers located at 1212', 912', and 612'. Guide shoe, Baker. No bleed back. Nippled up.					
7-27	-	1268	Nippled up and worked on BOP (tested with 1000 psi on casing), cemented at surface (8 5/8" casing) with 80 sacks cement.					
7-28	1268	1604	Drilled 336'. Drilled through plug at 1150! (18' of cement). Opened hole to 1268'. Treated mud with gel, caustic, soda ash, and Mantan.					
7-29 , 7-30	160կ	2128	Drilled 524'. Treated mud with caustic, Mantan, gel.					
			Mud Summary 7-23 to 7-30-56: Wt. 9-11.1 #/gal. Vis. 10-45 sec.					
	HOLK		ASING SIZE DEPTH SET					
SIZE	FROM	то						
DRIL SIZ	L PIPE	1						

North Desert Creek
San Juan, Utah

DRILLING REPORT FOR PERIOD ENDING

August 16, 1956

Section 12

T 41 S., R 23 E., SIM
(TOWNSHIP OR RANGHO)

(COUNTY)

3	· · · · · · · · · · · · · · · · · · ·		(TOWNSHIP OR RANCHO)						
DAY	DE	PTH S	REMARKS						
1956	FROM	то							
7-31 8-1	2128	2828	Drilled 700. Converted to gypsum base mud at 2500. Treated mud with aquagel, soda ash, mantan, and caustic.						
8-2 8-12	2828	4517	Drilled 1689. Treated mud with Impermix, preservative, gypsum, and aquagel.						
8-13	4517	4523	Drilled 6'. Pump clutch shaft broke 2:00 A.M.						
8-14 8-15	4523	4523	Waited on pump clutch shaft.						
8-16	4523	4542	Drilled 19. Replaced new pump clutch shaft. Started drilling 5:00 P.M. Treated mud with impermix, gypsum, and preservative.						
			Checked BOP daily.						
			Mud Summary 7-31-56 to 8-16-56:						
			Wt. 9.4-10.1 #/Gal. Vis. 34-54 sec. W.L. 5.4-10 cc F.C. 2/32 in. pH 7-9 Sal. 500-1700 ppm (t).						

CONDITION AT BEGINNING OF PERIOD									
	HOLE		CASING SIZE	DEPTH SET					
SIZE	FROM	то							
11"	0	1268	8-5/8**	1255'					
7 7/8	268	2128							
DRILL	PIPE 4	-1/2m	F.H. 16.	#/ft.					

DRILLING REPORT
FOR PERIOD ENDING

FOR PERIOD ENDIN

North Desert Creek

WELL NO.

T. 11 S., R. 23 E., SIBM (TOWNSHIP OR RANCHO)

(FIELD)
San Juan, Utah
(COUNTY)

DRILL PIPE 42 F.H. 16.6#/f.

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August 27. 1956

	(COUNT	,	(TOWNSHIP OR RANCHO)
DAY	DE	PTHS	REMARKS
	FROM	то	
8 -1 7 8 - 25	4542	5439	Drilled 897. Treated mud with aquagel, impermix, gypsum, preservative.
8-26	5439	5460	Drilled 18'. Cored 3'. Ran DST #1, 5334-5457, Johnson testers. Ran tester with 6-5/8" B.T. packers at 5328 and 5334, 3 inside pressure recorders ("T", Amerada, Long) and 1 outside pressure recorder, 3/4" subsurface bean and 1" surface bean, perforations 5334-37 and 5429-57, no water cushion, 30' air cushion. 20 minute initial shut in. Tool did not open, disc valve failed to shear. Test failed. 400' of mud leaked into drill collars above tool either because of leak in reverse circulation valve or leak in drill collars.
8-27	5460	5487	Cored 27'. Core #1 5457-5483'. Cut core #2 5483-5487. Ran Gamma-Ray- Weutron log - Schlumberger.
			Checked BOP Daily
			Mud Summary 8-17-56 to 8-27-56
			Wt. 9.9-10.3 #/gal. Vis. 38-50 sec.
	<u> </u>		W.L. 6.1-12 cc. F.C. 2/32 in.
			Sal. 1400-2000 ppm pH 7.5
	į		
	Co	NDITION A	BEGINNING OF PERIOD
	HOLE		SING SIZE DEPTH SET
11 th 7 7/8 th	0 1268	1268 8 154 2	5/8* 1255

Wildcat

DRILLING REPORT
FOR PERIOD ENDING

North Desert Creek

(SECTION OR LEASE)

T. 41 S., R. 23 E., SLBM (TOWNSHIP OR RANGHO)

(FIELD)
San Juan, Utah
(COUNTY)

August 31, 1956

DAY	DEP	тнв					<u> </u>		
UA:	FROM	то	-	REMAI	rks				
8-28	5487	5517	tester record perfor minute	30'. Cut Core #3, with 6-5/8" packers ers, 3/4" subsurface ations 5337-43' and s. Test failed. Ditool. ISIP 2150 ps	at 5331' bean and 5494-5517' sc valve f	and 5337', for l' surface bea . Intended in	ur outsid e an, 60' ai mitial shu	pressure r cushion, t in 30	
8-29	5517	5555	DST #2 ISIP w and 30 blow i in 39 Recove gas cu (Gas r	Cored 38. Cut Core #4, 5517-5567. Ran DST #2A. The above data for DST #2 applies to DST#2A except that no air cushion was used and no ISIP was taken. Tool open 2 hours and 30 minutes and shut in 1 hour and 30 minutes. Faint blow increasing to weak blow in 1 minute, moderate blow in 1-1/2 minutes, strong blow in 20 minutes back to moderate blow in 39 minutes with gas to the surface. 4' fluid loss in annulus. Recovered 780' (8.5 bbl.) fluid including 30' (4 bbl.) mud, 45' (.6 bbl) gas cut mud, and 705' (7.5 bbl) oil, gas cut mud. (Gas rate nil) Wt. Feet above tester Description Salinity (t) #/gal. Gravity 780 Mud 2200 9.7 38°					
8–30	5555	5602	Mud, by gypsum Cored 5515-5 at 550 and 1* 5579-5 Immedian 3-1 minute	705 Oil , ga	tive. 5517-5567. ers. Ran to tailpiece won. Tool opeasing to surface in l	zed 80 minutes pm. Treated n Ran DST #3 (construction of the perforation of the perforat	completed 5/8" bobtes, 3/4" such that in 1 had not been to surfa	test 8-31-56), il packers absurface bean 5515-19' and abour 40 minutes as to surface ace in 17	
		NOITION	T BEGINNIN	g of Period					
SIZE	HOLE	то	CASING SIZE	DEPTH SET					
11° 7-7/8°	0 1268 5457		8-5/8 [®]	1255'					
DRIL	L PIPE 4-	1/2 % F.	н. 16.6	/ft.					

Wi	٦	d	c	2	ł.
44.7	4	··	u	a	

DRILLING REPORT
FOR PHRIOD ENDING

August 31, 1956

North Desert Creek

T. 41 S., R. 23 E.

WELL NO .-

(FIELD) San Juan, Utah

DRILL PIPE SIZES

	(COUN			gust of 1200	<u>Τ. λ</u>	(TOWNSHIP OR RANCHO)
DAY	ļ	PTHS		REMARKS		
	FROM	то				
8-30	5555	5602	Feet of Fluid	Description	. Cut.	Gravity
			180 (2.6) 480 (3.7) Heav 120 (0.5) Gas Rate 1500 MCF/ IFP 540, FFP 995,	SIP 2230 nearly stabiling	100% oil No sample - 100% oil zed in 35 min	410
8-31		5602	Circulated 4 hours	8#/gallon, 3400 (t) salt and ran Schlumberger El Laterolog. (Completed	lectric log,	Gamma Ray-Neutron
	CO	NDITION AT	Beginning of Period			
	HOLE		ING SIZE DEPTH SET			
SIZE	FROM	70				

DRILLING REPORT
FOR PERIOD ENDING

September 6, 1956

North Desert Creek

(SECTION OR LEASE)

T. hl S., R. 23 E., SLBM

WELL NO.-

(TOWNSHIP OR RANCHO)

(FIELD)								
San	Juan,	Utah						
(COUNTY)								

8-5/8

16.6#/ft.

1255

1.268

11*

7-7/8" 1268 5457

7-3/4" 5457 5606

DRILL PIPE 42 F.H.

DAY	DAY			remarks					
	FROM	то		KEM/	, mn				
9-1	5602	5606	(was 5 hours (compl 5564 a l* sur hours, minute	easured pipe while going in hole for DST #4. New recorded depth, 5606 was 5602). This is the same as Schlumberger's T.D. Circulated for two ours prior to running DST #4. Ran DST #4 (5570-5606), Jchnston testers completed test 9-2-56). Ran tester with 6-5/8* Bob Tail packers at 564 and 5570, two outside pressure recorders, 3/4* subsurface bean and surface bean, perforations 5570-5606, no air cushion. Tool open 2 ours, shut in 1 hour 30 minutes. Faint blow immediately, weak blow 35 inutes, moderate blow 56 minutes and maintained for balance of test. ecovered fluid as follows:					
			Recove Feet	ry Bbls. Descrip	tion Cut	Salinity (t) ppm	Gravi ty OAPI	W+.#/gal.	
			50	.20 Slightly			-	7.8	
			90	•35 Slightly	mud 2% c oil 95% mud 5% c	mud 3800	-	7.8	
			IFP 80	, FFP 120, SIP (not	st. 90 min	ı.), HP 2960.			
	,		Mud be	fore test 9.7#/gal.,	3200 ppm.	•			
9-2	5606	5621	DST #5 packer bean a open 2 blow, minute tanks Only o	d 18. Note: Release 5557-5606, Johnstons at 5551 and 5557, and 1 surface bean, hours 30 minutes, see gas to surface 3 minutes, see Heavily gas cut available, gauged will and gas in pipe. ediment. Mud before 1480, FFP 1100, SIP to bottom and then	n testers. 4 outside perforation that in 1 handes, stroil flowed tha 5 gal The oil is test 9.7% 2200 (Stab	Ran tester pressure recoons 5557-5606, nour 30 minute rong blow 5 mil at the rate bucket). Rules greenish, 47/gal., 3200 po.almost insta	with 6-5/8" rders, 3/4" no air cust s. Immedia nutes, cil of +500 B/D everse circul 1° API gravi pm. Gas rate	Bob Tail subsurface hion. Tool te moderate to surface 15 . (No test ulated out. ity, 0% water,	
9-3		5621	cement	Ran and cemented 51/2", 17# casing at 56th with 250 sacks of construction cement, 15.2#/gal. slurry. Pumped 3 bbls. of water ahead of cement. Displaced with rig pump. Bumped plug with 1500 psi. Finished displacing					
	COI	NDITION		NG OF PERIOD	1 2:45 P.M.	. Measured an	d started p	icking up tub-	
	HOLE		CASING SIZE	DEPTH SET	ing, 2" ([2-3/8" O.D.),	4.7#/ft.		
SIZE	FROM	то			1				

DRILLING REPORT
FOR PERIOD ENDING

North Desert Creek

T. 41 S., R. 23 E., SLEM (TOWNSHIP OR RANCHO)

WELL NO....

(FIELD) San Juan, Utah (COUNTY)

			(TOWNSHIP OR RANCHO)
DAY			- Remarks
-	PROM	то	 -
9 - lı		5606	Finished running in tubing, 183 joints, 5590.24° measured on walk or 5591° measured on hook. Drilled cement and baffle from 5582-5612. Ran neutron log with collar indicator. Perforated 5578-86 and 5590-98 (depths from Schlumberger log) with super casing jets, 4 holes per foot. Work by Lane Wells. Prior to logging and perforating, changed over from gypsum base mud to water. Set up separator and 25 barrels test tank. NOTE: Lane Wells neutron log (corrected to Schlumberger depth) shows top of cement at 5606 in casing.
9 - 5		5606	Removed B.O.P. Acidized with 500 gallons mud acid, 1500 gallons Petrofrac, and 2500 gallons Petrofrac with 1/2# sd/gal. Maintained 5000-6000 psi on fluid for 35 minutes before formation broke. Formation took fluid from 4:11 PM - 4:50 PM except for 17 minutes when pumps were down to avoid overheating the motor. Dowell made 6 runs swabbing to a depth of 3500 feet. Fluid began to flow on the 6th run.
9 - 6		5606	The first gauge (4:00 AM -4:27 AM) showed a production rate of 1200 B/D with gas showing a 30 psi pressure on a 1° orifice. The gauge of 4:43 - 5:07 AM showed a production of 1320 B/L. The production stabilized at 6:00 AM at 1440 B/D, gas rate 950 MCF/D. The well was flowing through a 48/64° surface bean with a tubing pressure of 355-360 psi. The oil is greenish, 42° API gravity, and 0.3-0.4% sediment, no water. The well was shut in at 10:00 AM. Loffland Brothers Rig #139 released 3:00 PM.
			Loffland Bros. Company B.R. Beasley C.L. Boyle A.L. Hatch
	CON	NDITION AT	BEGINNING OF PERIOD
	HOLE	c,	SING SIZE DEPTH SET

]	Condition at beginning of Period									
	HOLE		CASING SIZE	DEPTH SET						
SIZE	FROM	то								
·										
			1 1							
DRILL SIZI	PIPE									

North Desert Creek 1

Examined by Anklam

0 to <u>680</u>

North Desert Creek Field or Area FROM TO % SHOWS UNDERLINED SAMPLES KKKKKK NOT LAGGED 0 40 No Samples. 40 60 100 Sandstone, light brown to white, slightly calcareous, very fine. 60 100 100 Sandstone, light tan to red brown, calcareous. 100 1710 20 Sandstone, as above. 80 Shale, brownish purple. 160 1710 100 Shale, as above. 160 180 80 Sandstone, (grains) very poor sample. 20 Shale, as above. 180 200 100 Shale, as above. 240 200 90 Sand grains 10 Shale, as above. 240 250 100 Shale, as above. 250 Sand grains 300 60 40 Shale, as above. 380 300 75 Shale, as above. 25 Sandstone 380 400 60 Sandstone, tan 40 Shale, purple 640 50 400 Sandstone, as above. 20 Sandstone, green. 30 Shale, purple to brown. 640 660 80 Shale, purple to brown. 20 Sandstone, red orange. 680 660 50 Sandstone, light orange tan. 50 Sandstone, red orange.

Examined by J.M. Burns 680 to 10.60

J.R. Anklam to

Anklam to ____ Field or Arc

Well North Desert Creek 1
North Desert Creek

FROM	то	%	SHOWS UNDERLINED	SAMPLES	KXZZKE	NOT LAGGED	
490	700	1.0	Candatana rad anara				
680	700	40	Sandstone, red orange.				
		40	Sandstone, tan.				
		20	Shale, as above.		·		
700	740	80	Sandstone, red orange.				
		20	Shale, as above.				
740	920	100	Sandstone, white to orange tan.				
920	940	80	Sandstone, as above.				
		20	Shale, dark brown mottled green.				
940	960	80	Sandstone, as above.				
		20	Shale, dark brown.				
960	980	75	Shale, as above.				
		25	Sandstone, as above.				
980	1000	60	Shale, as above.				
		40	Shale, light green.				Ì
1000	1020	80	Shale, dark brown.				ļ
•		20	Sandstone, orange red.				
1020	1260		No Sample.				
1260	1360	100	Cement.				
1360	1390	100	Cement, trace sandstone.				
1390	1410	95	Cement.				
		5	Sandstone.				
1410	1420	75	Cement.				
		25	Sandstone.				
1420	1450		No Samples.				ļ
1450	1460	90	Sandstone.				
		10	Cement				
)

North Desert Creek 1

North Desert Creek

SAMPLES XXXXXXX NOT LAGGED

			to Field or A
FROM	то	%	SHOWS UNDERLINED
1460	1470	100	Sandstone, very fine, silty.
1470	1500	100	Siltstone, very sandy.
1500	1540	100	Siltstone, sandy, calcareous, red orange.
1540	1630	100	Siltstone, red brown.
1630	1700	100	Siltstone, as above, dark brown in part.
1700	1790		No samples.
1790	2090	100	Siltstone, tan, red brown, calcareous.
2090	2170	95	Siltstone, slightly sandy.
		5	Siltstone, very calcareous.
2170	2190	90	Siltstone, as above.
		10	Limestone, III/I VFA, very argillaceous.
2190	5570	75	Siltstone, as above.
		25	Limestone, as above.
2240	2260	75	Limestone, as above.
		25	Siltstone, as above.
2260	2300	30	Limestone, as above.
		70	Siltstone, as above.
2300	2340	85	Siltstone, as above.
		15	Limestone, as above.
2340	2370	85	Siltstone, as above.
		15	Sandstone, medium coarse grain.
2370	2380	70	Siltstone, as above.
		25	Sandstone, coarse grain.
		5	Sand grains, coarse to very coarse.

Examined by J.R. Anklam 1460to

Examined by J.R. Anklam 2380 to 3460 _______ to _____

Field or Area

North Desert Creek 1
North Desert Creek

FROM	ТО	%	SHOWS UNDERLINED SAMPLES XXXXXXXX NOT LAGGED
0.000		00	
2380	2400	80	Shale, light gray, soft, arenaceous, bentonite, slightly calcareous.
		20	Sandstone, medium-coarse, poorly sorted, angular, slightly calcareous.
57100	2410	100	Shale, as above.
2410	2430	100	Shale, light gray green, silty.
2430	2460	100	Sandstone, light green, very fine-fine, sub-round with abundant mica flakes, very slightly calcareous.
2460	2470	75	Sandstone, as above.
		25	Shale, gray
2470	2560		No Samples.
2560	2580	100	Sandstone, very fine grain, very calcareous.
2580	2600	100	Shale.
2600	2730	100	Sandstone, fine grain, calcareous.
2730	2880	100	Siltstone, sandy.
2880	2900	100	Shale.
2900	3100	60	Siltstone.
		40	Shale.
3100	3120	100	Siltstone, grading to very fine sandstone.
3120	3130	75	Siltstone, as above.
		25	Shale.
3130	3160	100	Siltstone, grading to sandstone.
3160	3180	100	Shale.
3180	3320	85	Siltstone.
		15	Shale
3320	3340	100	Siltstone
3 340	3460	70	Siltstone
		30	Shale

Examined by J.R. Anklam 3460 to 3700

Well

North Desert Creek 1

North Desert Creek

North Desert Creek

FROM	то	%	SHOWS UNDERLINED SAMPLES XXXXXXXXX NOT LAGGED
3460	3470	100	Shale, red brown, mottled green, silty with anhydrite inclusion, slightly calcareous.
3470	3480	100	Shale, as above.
3480	3500	100	Shale, red brown, green, purple.
3500	3510	50	Shale, red blocky, calcareous.
		50	Siltstone, red brown, micaceous, anhydritic.
3510	3530	100	Shale, as above, mottled green.
3530	3540	25	Shale, green, soft.
		75	Shale, as above.
3540	3560	100	Shale, red, red brown, green, purple.
3560	3570	100	Shale, brick red, blocky, calcareous.
3570	3580	100	Shale, brown, fissile, micaceous, calcareous.
3580	3590	100	Shale, brick red, blocky, slightly calcareous, arenaceous.
3590	3600	50	Shale, as above.
		50	Shale, green, blocky, micaceous, calcareous.
3 600	3620	50	Shale, red, as above.
		50	Siltstone, brown, micaceous, anhydrite inclusions.
3620	3630		Skip.
3630	3640	100	Shale, red brown, mottled green with anhydrite inclusions, slightly calcareous.
3640	3650	100	Siltstone, light green, calcareous, micaceous.
3650	3670	50	Shale, red brown.
		50	Siltstone, brown, micaceous, calcareous.
3670	3680	75	Siltstone, as above.
		25	Limestone, dark gray, IVFR.
3680	3700	100	Siltstone, as above.

Examined by J.R. Anklam 3700 to 3700

Well North Desert Creek 1

Field or Area North Desert Creek

FROM	ТО	%	SHOWS UNDERLINED SAMPLES TORGET NOT LAGGED
		-	
3700	3720	100	Siltstone, brown, micaceous, slightly calcareous.
3720	3730	25	Shale, brick red.
		75	Siltstone, as above.
3730	3740	25	Sandstone, white very fine, micaceous.
		25	Siltstone, as above.
		50	Shale, brick red, calcareous.
3740	3 750	100	Shale, red brown, blocky, calcareous.
3750	3770	100	Sandstone, light-medium brown, very fine, silty, micaceous, calcareous, argillaceous.
3770	3780	75	Shale, varicolored, red, brown, green, purple.
		25	Sandstone, as above.
3780	3790	100	Siltstone, brown, calcareous, micaceous with anhydrite inclusions.
3790	3800	100	Shale, red, brown, green, calcareous.
3800	3830	100	Siltstone, brown, calcareous, white with anhydrite inclusions.
38 3 0	3840	25	Limestone, dark gray, IVFA, argillaceous.
		75	Siltstone, as above.
3840	3850	100	Shale, red, green, gray, green.
3850	3860	25	Limestone, medium-dark, gray, IVFA, argillaceous.
		75	Siltstone, as above.
3860	3880	75	Shale, red, brown, green.
		25	Limestone, light gray-black.
3880	3890	25	Limestone, light gray, IVFA.
		75	Siltstone, brown, calcareous.
3890	3900	50	Limestone, as above.
		50	Shale, red, brown, green, purple.

Examined by J.R. Anklan 3900 to 4070 North Desert Creek 1 Well North Desert Creek Field or Area % FROM TO SHOWS UNDERLINED SAMPLES LANGED NOT LAGGED 3900 3930 100 Shale, red, brown, green, purple. 50 3930 3940 Shale, as above 50 Limestone, light gray, IVFA, argillaceous 3940 3950 25 Limestone, as above. 75 Siltstone, green, calcareous. 3950 3960 25 Limestone, as above. 75 Shale, light green, shows fissility. 3960 3970 25 Shale, red, calcareous. 75 Siltstone, brown, calcareous. 3970 3980 75 Shale, red, brown, green. 25 Siltstone, as above. 3980 3990 75 Shale, as above. 25 Limestone, light - dark, gray, I-IIIVFL, argillaceous. 3990 7000 100 Limestone, light gray, IVFA. 7010 50 4000 Shale, red, brown, green, arenaceous in part. 50 Limestone, as above. 4010 4020 100 Shale, as above. 4020 1030 50 Shale, gray, green, calcareous with limestone pebbles. 50 Shale, as above. 4030 4040 100 Shale, gray, green, as above. 4040 4050 50 Shale, as above. 50 Shale, red, brown, green. 4050 4060 100 Shale, gray, green, calcareous, shows fissility with anhydrite inclusions. 4060 4070 75 Shale, as above, varicolored. 25 Limestone, light gray-tan, IVFA.

Examined by J.R. Anklam 4070 1,300 Well North Desert Creek 1
to field or Area North Desert Creek

North Desert Creek

North Desert Creek

SAMPLES CASCES NOT LAGGED

FROM	ТО	%	SHOWS UNDERLINED SAMPLES LAGGED.
4070	4100	100	Shale, brown, red, gray, calcareous.
4100	4110	100	Shale, red, brown, green.
4110	4120	50	Shale, as above.
		50	Sandstone, brown, very fine, argillaceous.
4120	4130	100	Shale, as above.
4130	4150	100	Shale, red, brown, calcareous, silty.
4150	4160	50	Shale, as above.
		50	Shale, light-medium gray, blocky, calcareous.
4160	4170	100	Shale, red, red brown, gray.
4170	4190	100	Siltstone, brown, calcareous.
4190	4200	50	Shale, red, brown, green gray.
		50	Siltstone, as above.
4200	4210	100	Siltstone, brown, slightly calcareous.
4210	4220	25	Shale, gray green.
		75	Siltstone, as above.
4220	4230	50	Shale, gray green.
		50	Shale, red brown.
4230	4240	100	Shale, gray green with black streaks in bedding, blocky shows fissility.
4240	4250	25	Shale, as above.
		75	Limestone, light medium gray, IVFA.
4250	4260	100	Limestone, white-light gray, IVFA.
4260	4270	100	Siltstone, brown, calcareous.
4270	4280	25	Limestone, white-pink, IVFA.
		75	Siltstone, as above.
4280	4300	25	Shale, light gray, arenaceous, calcareous.
		75	Siltstone, as above.

Examined by J.R. Anklam 4300 to 4350

Field or Area

North Desert Creek 1 North Desert Creek

F	ROM	ТО	%	SHOWS UNDERLINED	SAMPLES	UNGCEN	NOT	LAGGED
			<u>•</u>					
43	300	4320	100	Shale, red brown, silty, calcareous.				
43	320	4330	25	Limestone, pink-light gray, IVFA.				
			75	Shale, as above.				
43	330	4340	100	Shale, as above.				
43	340	4350	50	Shale, gray green, calcareous.				
			50	Shale, red brown, silty.				

Exam	nined by _	Anklam	
FROM	то	%	SHOWS UNDERLINED SAMPLES LASSED NOT LAGGED
4350	4355	5	Limestone, tan to gray brown to gray green, I TFA, 2% yellow fluorescence no cut fluorescence.
		5	Limestone, white to gray green, III/II Vi-Fi, sandy in part.
		50	Siltstone, reddish brown to brown, sandy, calcareous, with inclusions white limestone (?).
		40	Shale, variegated, calcareous in part.
4355	4360	5	Limestone, I VFA and III/II VF-FA, as above, trace yellow fluorescence, no cut fluorescence in I VFA.
		65	Siltstone, as above.
		30	Shale, as above.
4360	4365	60	<u>Siltstone</u> , as above.
		ДО	Shale, as above.
		Tr.	Limestone, tan to gray green, I VFA, trace pale yellow fluorescence, no cut fluorescence.
		Tr.	Anhydrite.
4365	4370	5	Limestone, tan to gray green, I VFA, 1% yellow fluorescence, no cut fluorescence.
		45	<u>Siltstone</u> , as above.
		50	Shale, as above.
4370	4375	7 0	Limestone, tan to gray green, III/II VF-FA, with inclusions mica, very sandy.
		20	<u>Siltstone</u> , as above.
		10	Shale, as above.
4375	4380	7 5	Limestone, tan to gray green, as above, trace very pale yellow fluorescence, no cut fluorescence.
		1 5	Shale, as above.
		10	Siltstone, as above.
4380	4385	45	Limestone, tan to gray green, as above.
		40	Siltstone, as above.
		15	Shale, as above.

4385 10 4420 North Desert Creek 1 Examined by Anklam Well Field or Area Wildcat FROM TO % SHOWS UNDERLINED SAMPLES KASSED NOT LAGGED 4385 4390 20 Limestone, tan to gray green, as above. 50 Siltstone, as above. 30 Shale, as above. 4390 4395 5 Limestone, tan to gray green, as above. 75 Siltstone, as above. 20 Shale, as above. 4395 17100 5 Limestone, tan to gray green, as above. 70 Siltstone, as above. 25 Shale, as above. 1400 4405 70 Siltstone, reddish brown to brown, sandy, calcareous, with inclusions white limestone(?) and mica. 30 Shale, variegated, slightly calcareous in part. Tr. Limestone, tan to gray green, III/II VF-FA, with inclusions mica, very sandy to silty. Tr. Limestone, tan, I VFA. 4405 1110 60 Limestone, tan to brown to gray green, III/II VF-FA with inclusions mica, grading to siltstone, sandy. 30 Siltstone, as above. 10 Shale, as above. Tr. Limestone, tan to gray green, I VFA. 4410 4415 25 Limestone, grading to siltstone, as above. 60 Siltstone, as above, mottled green in part. 15 Shale, as above. Tra Limestone, tan to green gray, I VFA. 4415 5 山20 Limestone, tan to gray, I VFA. Limestone, tan to gray green, III/II VF-FA, silty. 5

Siltstone, reddish brown to brown, sandy, calcareous, with inclusions

mica, mottled green in part.

80

10

Shale, as above.

Exam	nined by .	Anklam	hhi20 to hhi60 well North Desert Creek 1 to Field or Area Wildcat
FROM	ТО	%	SHOWS UNDERLINED SAMPLES LASSED NOT LAGGED
孙50	山25	5	Limestone, white to gray green to tan, III/II VF-FA, silty to sandy.
		65	<u>Siltstone</u> , as above.
		30	Shale, as above.
4425	4430	65	Siltstone, as above.
		35	Shale, as above.
		Tr.	<u>Limestone</u> , tan green, I VFA.
		Tr.	Limestone, gray green, III/II VF-FA, silty.
1,1,30	<i>ի</i> դդ	5	Limestone, gray green, III/II VF-FA, silty.
		30	<u>Siltstone</u> , as above.
		65	Shale, as above.
		\mathtt{Tr}_{ullet}	<u>Limestone</u> , tan, I VFA.
իրդ	4445	5	Limestone, gray green, III/II VF-FA, silty.
		30	Siltstone, as above, with inclusions white <u>limestone</u> (?).
		65	Shale, as above.
		\mathtt{Tr}_{\bullet}	Limestone, tan, I VFA.
4445	4450	5	Limestone, tan to tan green, III/II VF-FA, silty.
		50	Shale, as above.
		45	Siltstone, as above, with inclusions white <u>limestone</u> (?).
4450	4455	7 5	Siltstone, reddish brown to brown, sandy in part, calcareous in part, inclusions mica and white material, mottled green in part.
		25	Shale, variegated, calcareous.
		Tr.	Limestone, tan to gray green, III/II VF-FA, sandy to silty, trace pale yellow fluorescence, no cut fluorescence.
		Tr.	Dolomite, light tan, I/II VFA.
4455	4460	10	Limestone, tan to tan green, III/I VFA, silty.
		50	<u>Siltstone</u> , as above.
		40	Shale, as above.
		Tr.	Limestone, tan, III/II, dolomitic, silty.

Examined by		Anklan Eskels	Lil 60 to Lil 75 Well North Desert Creek No. 1	
FROM	то	%	SHOWS UNDERLINED SAMPLES LAGGED NOT LAGGED	
141460	4465	10	Limestone, tan gray to gray green, III/I VFA, silty.	
		5	Dolomite, white to light tan, II A, silty.	
		55	Siltstone, as above.	
		30	Shale, as above.	
4465	4470	5	Limestone, tan gray to gray green, III/II VF-FA, silty.	
		50	Siltstone, as above.	
		45	Shale, as above.	
4470	4475	70	Limestone, white to tan gray, I/III VFA, dolomitic in part, silty, trace chert.	
		20	Siltstone, as above.	
		10	Shale, as above.	
4475	141480	50	Shale, gray, sub fissile, calcareous.	
50 <u>Limestone</u> , white to light gray, I VFA, sl fossiliferous?.		50	Limestone, white to light gray, I VFA, slightly arenaceous, cherty, fossiliferous?.	
14180	4485	50	Shale, variegated, reddish brown, gray green.	
		50	Limestone, light gray to tan, I VFA.	
14185	77790	75	Shale, as above.	
		25	Limestone, as above.	
14190	4495	7 5	Shale, gray green, calcareous.	
		25	Limestone, as above.	
4495	4500	50	Shale, gray green.	
		50	Shale, reddish brown.	
4500	4505	75	Shale, variegated, reddish brown to gray green.	
		25	Limestone, olive, I VFA.	
4505	4515	25	Shale, gray green.	
		7 5	Shale, reddish brown.	
4515	4520	7 5	Shale, as above.	
		25	Limestone, light gray, I VFA.	

Examined by Eskelsen 4520 to 4620 Well North Desert Creek 1 Field or Area						
FROM	то	%	SHOWS UNDERLINED SAMPLES LAGGED NOT LAGGED			
4520	4525	•	No Samples			
4525	4535	7 5	Shale, reddish brown, blocky, calcareous.			
		25	Sandstone, white, fine to medium grained, subround, calcareous.			
4535	4550	50	Shale, as above.			
		50	Sandstone, as above.			
4550	4555	7 5	Shale, gray green, blocky, calcareous.			
		25	Sandstone, white to gray green, very fine to medium grained, subround, calcareous.			
4555	4560	75	Shale, variegated gray green, red brown.			
		25	Sandstone, as above.			
4560	4565	25	Shale, as above.			
		75	Sandstone, light brown, very fine grained, calcareous, micaceous.			
4565	4570	100	Sandstone, as above.			
4570	4580	50	Shale, reddish brown, blocky, calcareous.			
		50	Sandstone, as above.			
4580	4585	50	Shale, as above.			
		50	Sandstone, as above, light brown to light green.			
4585	4590	7 5	Shale, gray green, blocky, calcareous.			
		25	Sandstone, light green, very fine grained, calcareous.			
4590	4595	100	Sandstone, light gray to brown, silty to very fine grained, calcareous, argillaceous.			
4595	4600	100	Shale, medium gray, blocky, calcareous.			
4600	4605	100	Limestone, white to light gray, I VFA.			
4605	4610	75	Shale, medium gray, blocky, calcareous.			
		25	Limestone, as above.			
4610	4615	100	Shale, as above.			
4615	<u>4</u> 620	75	Shale, as above.			
		25	Limestone, light gray, I VFA.			

Examined by Eskelsen 4620 to 4725 Well North Desert Creek 1									
FROM	то	%	SHOWS UNDERLINED SAMPLES LAGGED NOT LAGGED						
4620	4625	100	Shale, as above.						
4625	4630	75	Shale, reddish brown, blocky, calcareous.						
		25	imestone, light gray, T VFA.						
4630	4635	100	Shale, as above.						
4635	4640	90	Shale, as above.						
		10	Limestone, light gray, I VFA.						
4640	4650	75	Shale, as above.						
		25	Limestone, as above.						
4650	4670	75	Shale, as above.						
		25	Shale, medium gray, blocky, very calcareous, micaceous.						
4670	4675		No Sample.						
4675	4680	100	Limestone, white, I VFA, arenaceous.						
4680	4685	50	Shale, reddish brown.						
		50	Limestone, white to light gray, T VSA, arenaceous.						
4685	4690	75	Shale, as above.						
		25	Limestone, as above.						
4690	4695	7 5	Shale, as above.						
		25	Limestone, light gray, I VFA, fossiliferous, argillaceous.						
4695	4700	100	Shale, variegated reddish brown, gray green.						
4700	4705	100	Shale, medium gray, blocky, calcareous.						
4705	4710	100	Shale, reddish brown, calcareous.						
4710	4715	50	Shale, as above.						
		50	Shale, medium gray, calcarecus, silicecus in part.						
4715	4720	50	Shale, medium gray, calcareous.						
		50	Limestone, light gray to tan, I VFA.						

Limestone, white to light gray, I VFA, arenaceous, cherty.

4720

4725

100

Examined by		Eskels	en 4725 to 4845 ——————————————————————————————————					
FROM	то	%	SHOWS UNDERLINED SAMPLES TAGGED NOT LAGGED					
4725	4730	75	Shale, reddish brown, calcareous.					
		25	Limestone, light to medium gray, I VFA, cherty.					
4730	4745	100	nale, variegated reddish brown, medium gray, gray green.					
4745	4750	50	Shale, as above.					
		50	Limestone, light to medium gray, I VFA, slightly argillaceous.					
4750	4755	75	Shale, reddish brown, calcareous.					
		25	Limestone, tan, I VFA.					
4755	4760	75	Shale, as above.					
		25	Limestone, light to medium gray, I VFA, very argillaceous in part.					
4760	4765	100	Limestone, light to medium gray, I-III VF-MA.					
4765	4770	100	Limestone, as above, I-III VF-FA.					
4770	47 90	100	Shale, reddish brown, calcareous.					
4790	4800	75	Shale, as above.					
		25	Limestone, light gray, I VFA.					
4800	4810	50	Shale, as above.					
		25	Shale, medium gray, calcareous.					
		25	Limestone, as above.					
4810	4815	50	Shale, reddish brown.					
		50	Limestone, light gray, T VFA.					
4815	4830	75	Shale, as above.					
		25	Limestone, as above, with red chert.					
4830	4835		No Sample.					
4835	4840	75	Shale, variegated reddish brown, medium gray, gray green.					
		25	Limestone, white to light gray, I VFA, cherty.					
4840	4845	75	Limestone, as above.					
		25	Chert.					

Well North Desert Creek 1

Examined by Eskelsen 4845 to 4940

	illinio by		to Field or Area
FROM	то	%	SHOWS UNDERLINED SAMPLES LAGGED NOT LAGGED
4845	4850	100	Limestone, white to light gray, I VFA, very cherty.
4850	4855	50	Shale, medium gray, calcareous.
		50	Limestone, as above.
4855	5860	7 5	Shale, as above.
		25	Limestone, as above.
5860	5865	2 5	Shale, gray green to black, slightly calcareous.
		75	Limestone, light gray to tan, I VFA.
5865	5870	100	Limestone, light gray, I VFA.
5870	5885	75	Shale, medium gray, calcareous.
		25	Limestone, as above.
5885	5890	50	Shale, as above.
		50	Limestone, medium gray, I/III VF-FA.
5890	4900	100	Limestone, light to medium gray, I VFA, very arenaceous, micaceous.
4900	4905	50	Shale, medium gray, calcareous.
		50	Limestone, as above.
4905	4920	75	Shale, varicolored red brown gray.
		25	Limestone, medium gray, I VFA.
4920	4925	50	Shale, red brown, calcareous.
		50	Limestone, light to medium gray, I VFA.
49 25	4930	50	Shale, varicolored red trown, medium gray.
		50	Limestone, as above.
4930	4935	50	Shale, medium gray, calcareous.
		50	Limestone, medium gray to tan, I VFA.
4935	4940	7 5	Shale, as above.
		25	Limestone, as above, with dark gray chert fragments.

Examined by <u>Eskelsen</u> 4940 to 5050 Well <u>North Desert Creek 1</u>								
FROM	то	%	SHOWS UNDERLINED SAMPLES LAGGED NOT LAGGED					
4940	4945	50	Shale, as above.					
		50	mestone, medium gray to tan, I VFA.					
4945	4950	100	le, varicolored red brown to medium gray.					
4950	4960	7 5	Shale, medium gray, calcareous.					
	•	25	Limestone, white to medium gray, I VFA.					
4960	4965	100	Shale, medium to dark gray, calcareous.					
4965	4970	7 5	Shale, as above.					
		25	Limestone, medium gray, I VFA, very argillaceous.					
4970	4975	50	Shale, as above.					
		50	Limestone, as above.					
4975	4980	100	Limestone, light to medium gray, I VFA.					
4980	4990	100	Limestone, light gray, I VFA, chert fragments.					
4990	4995		No Samples.					
4995	5000	100	Limestone, light to medium gray, I VFA.					
5000	5005	100	Limestone, medium gray to tan, I VFA, silty, minor milky chert.					
5005	5010	100	Limestone, as above, no chert.					
5010	5015	100	Limestone, medium gray to tan, I VFA, silty, minor milky chert.					
5015	50 20	100	Shale, variegated red brown, medium gray.					
5020	5025	50	Shale, medium gray, calcareous.					
		50	Limestone, dark gray, I VFA, very argillacecus.					
5025	5035	100	Limestone, light gray to tan, I VFA.					
50 3 5	5040	75	Shale, variegated red brown, medium gray.					
		25	Limestone, as above.					
5040	5045	100	Shale, as above.					
5045	5050	25	Shale, as above.					
		75	Limestone, white to tan, I VFA.					

Examined by		Eskels	<u>sen 5050</u> to 5175 —to field or Area					
FROM	ТО	%	SHOWS UNDERLINED SAMPLES +AGGED NOT LAGGED					
5050	5060	75	Shale, variegated purple, gray green, gray, red brown.					
		25	imestone, as above.					
5060	5065	100	Shale, variegated red brown, medium gray.					
5065	5070	75	Shale, medium gray.					
		25	Limestone, dark gray, I VFA, very argillaceous.					
5070	50 7 5	7 5	Shale, as above.					
		25	Limestone, light gray, I VFA.					
5075	5 085	100	Shale, medium gray, calcareous.					
5085	5090	100	Limestone, white, I VFA, silty.					
5090	5095	50	Shale, medium to dark gray, calcareous.					
		50	Limestone, as above.					
5095	5100	25	Shale, as above.					
		7 5	Limestone, white to medium gray, I VFA.					
5100	5105	50	Shale, as above.					
		50	Limestone, as above.					
5105	5125	100	Shale, medium to dark gray, sub-fissile, blocky, calcareous.					
5125	5135	75	Shale, as above.					
		25	Limestone, light gray, I VFA.					
5135	5145	100	Limestone, light gray to tan, I VFA, slightly silty.					
5145	5155	2 5	Shale, medium to dark gray, calcareous.					
		75	Limestone, as above.					
5155	5160		No Samples.					
5160	5165	100	Limestone, light gray, I VFA.					
5165	5170	100	Limestone, light gray to tan, I VFA.					
5170	5175	100	Limestone, as above, cherty, silty.					

Examined by		Eskels	en 5175 to 5250 to	Well Field or Area	North Desert Creek 1		
FROM	то	%	SHOWS UNDERLINED	SAI	MPLES tagged NOT LAGGED		
5175	5180	25	Shale, dark gray, calcareous.				
		75	Limestone, as above.	Limestone, as above.			
5180	5185	25	Shale, as above.				
		75.	Limestone, tan to dark gray,	I VFA, silty, ve	ry argillaceous.		
5185	5190	50	Shale, as above.				
		50	Limestone, as above.				
5190	5195	100	Limestone, light gray to tan,	I VFA, cherty,	dark gray to brown.		
5195	5200	25	Shale, dark gray, calcareous.				
		75	Limestone, as above.				
5200	5205	50	Shale, dark gray, calcareous.				
		50	Limestone, light gray, I VFA.				
5205	5210	100	Limestone, light gray, I VFA.				
5210	5215	75	Shale, dark gray, calcareous.				
		25	Limestone, as above.				
5215	5220	100	Limestone, white to light gra	y, I VFA, arenac	eous.		
5220	5225	100	Limestone, as above, cherty.				
522 5	5230	50	Shale, dark gray, calcareous.				
		50	Limestone, as above.				
5230	5235	50	Shale, as above.				
		50	Limestone, light gray to tan,	I-III VFA.			
5235	5240	50	Shale, as above.				
		50	Limestone, as above, cherty.				
5240	5245	25	Shale, as above.				
		75	Limestone, as above.				
5245	5250	7 5	Shale, medium to dark gray.				
		25	Limestone, light gray, I VFA,	cherty.			

Examined by		Eskels	sen 5250 to 5370 Well North Desert Creek 1 Field or Area
FROM	ТО	%	SHOWS UNDERLINED SAMPLES LAGGED NOT LAGGED
5250	5255	25	Shale, as above.
		75	Limestone, tan, I VFA, slightly arenaceous.
5255	5260	50	Shale, as above.
		50	Limestone, as above.
5260	5265	25	Shale, dark gray, slightly calcareous.
		75	Limestone, light gray to tan, I VFA, cherty.
5265	5270	50	Shale, as above.
		50	Limestone, tan to brown, I VFA, very argillaceous, cherty.
5270	5275	25	Shale, as above.
		7 5	Limestone, as above.
5275	5280	100	Shale, medium to dark gray, slightly calcareous.
5280	5285	25	Shale, as above.
		7 5	<u>Limestone</u> , tan, I VFA.
5285	52 90	100	Limestone, light gray to tan, I VFA, arenaceous.
5290	5300	50	Shale, dark gray, slightly calcareous.
		50	Limestone, as above.
5300	5310	7 5	Shale, as above.
		25	<u>Limestone</u> , light gray, I VFA.
5310	5325	100	<u>Limestone</u> , light gray, I VFA.
5325	5335	100	Limestone, light gray to tan, I VFA.
5335	5340	100	<u>Limestone</u> , tan, I VFA.
5340	5350	100	Limestone, brown, I VFA, cherty.
5350	5360	50	Shale, dark gray, blocky.
		50	Limestone, as above, cherty.
5360	5370	100	Limestone, brown, I VFA with occasional III/I F-M Trace B + C, appears brecciated, clear crystalline material possibly anhydrite filling veins, cherty, 5% of total sample pale yellow uniform to spotty fluorescence, milky white cut fluorescence.

Examined by <u>Eskelsen</u> 5370 t				Well North Desert Creek 1 Field or Area
FROM	то	%	SHOWS UNDE	RLINED SAMPLES LAGGED NOT LAGGED
5370	5375	100	Limestone,	brown, I/III VF-FA, very cherty, dark brown, 1% yellew fluorescence and cut fluorescence.
5375	5385	100	<u>Limestone</u> ,	brown, specked white, I VFA, very cherty, trace fluorescence and cut fluorescence.
5385	5395	100	<u>Limestone</u> ,	brown, I VFA, argillaceous.
5395	5400	100	Limestone,	brown, I VFA, slightly argillaceous.
5400	5405	25	Shale, darl	k gray, blocky.
		75	<u>Limestone</u> ,	as above, in part arenaceous.
5405	5410	25	Shale, as	above.
		75	Limestone,	as above, with blue white chert.
5410	5415	100	Limestone,	gray to tan, I VFA, with blue white chert, arenaceous in part.
5415	5420	100	<u>Limestone</u> ,	white to tan, I VFA, in part III VFA, 1% yellow uniform fluorescence and milky white fluorescence.
5420	5425	100	Limestone,	tan, III VFA, in part III VF B7 Trace C, 30% yellow fluorescence and milky white cut fluorescence.
5425	5430	75	Shale, bla	ck, very soft, calcareous.
		25	Limestone,	as above, with 5% fluorescence as above.
5430	5440	100	<u>Shale</u> , as a	above.
5440	5445	50	Shale, blace	ck, soft, in part hard, calcareous.
		50	<u>Limestone</u> ,	brown, I/III VFA, 10% fluorescence, yellow, and milky white cut fluorescence. (Sample may be contaminated due to cleaning out baffle box.)
5445	5450	100	Limestone,	brown, III VF B ₁₋₅ C ₁₀ , colitic (porosity appears to be dissolved colites, may not be inter-connected), strong yellow fluorescence 40% strong milky white cut fluorescence. Sample has strong petroliferous odor.
5450	5455	70	Limestone,	white, I VFA, soft.
		30	Limestone,	as above, 30% fluorescence and cut fluorescence.

PD	4-B	8.50

WEEK	ENDING
TTELL	E1101110

TO 5483 5<u>L</u>57 CORE FROM

CORE RECORD

AREA OR FIELD_N. Desert Creek COMPANY Shell Oil

	CORE FROM 10 2407 COILE ILLOCALE				MPANY_Dire.	<u>.ı. Vıı </u>		
	CORE	S EXAMI	NED BY.	Eskelsen	LE	SE AND WEL	L NO	
NO.	FROM	то	RECOV- ERED		FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBO	OBSERVED DIP	CORE INDICATIONS OIL—GAS CORE OR DITC
1	5457	5483	261					See
	5457	5458	1	Limestone,	tan, TVF-CA, fossiliferous, spotty oil staining, spotty yell fluorescence, bleeding oil.	<u>w</u>		Description
	5458	5459	1'	Limestone,	as above. Shows as above.			
	5459	5459.5	.51	Limestone,	as above. Shows as above.			
	5459.	55460	.51	Limestone,	tan, IVFA * B. Uniform oil staining, uniform to spotty yell fluorescence and cut fluorescence.	<u>ow</u>	la .	
	5460	5461	1,	Limestone,	tan, IVFA + B3, staining and fluorescence as above.			
	5461	5462	1'	Limestone,	as above, minor secondary calcite in veins. Uniform oil star and uniformed yellow fluorescence.	ining		
	5462	5463	1'	Limestone.	IVFA + B3, shows as above.			i.
	5463	5464	ı,	Limestone,	IVFA + B ₃ , shows as above.			
	5464	5465	1,	Limestone,	IVFA + B ₅ , shows as above.			i i
	5465	5466	1'	Limestone,	IVFA + B2, shows as above.			
	5466	5467	ı,	Limestone	IVFA + B ₁ , shows as above.			
	5467	5468	11		gray-brown, IVFA, very fossilferous, uniform oil staining uniform yellow fluorescence and cut fluorescence.			
	5468	5469	1'	Limestone,	as above. Shows as above.			
	5469	5471	21	Limestone,	IVFA + B _{tr}			
	5471	5472	11	Limestone,	gray, IVFA, spotty oil staining, uniform to spotty fluorescende and cut fluorescence.	nce		

		8-50
PD	4-B	8-50

WEEK ENDING	3	
CORE FROM_	5472	то 5483

AREA OR FIE	LD N.	Desert	Creek	
COMPANY	S he 11	<u>0il</u>	· · · · · · · · · · · · · · · · · · ·	•

	CORE	S EXAM	INED BY	Eskels	en	LEASE AND WELL	NO	1
NO.	FROM	то	RECOV- ERED		FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBO	OBSERVED DIP	CORE INDICATIONS OIL—GAS CORE OR DITCH
1	Cont	 	 	<u> </u>				
1	5472	ţ	1,	Limestone,	IVFA, black shale partings.			See Description
	5473	5474	ינ	Limestone,	IVFA, as above, spotty oil staining, spotty fluorescence a fluorescence.	nd cut		
	5474	5475	J.8	<u>Limestone</u> ,	IVFA, as above, spotty to uniform oil staining, fluorescenand cut fluorescence.	nce		
٠	5475	5476	10	Limestone,	tan IVFA + C ₂ , uniform oil staining, uniform fluorescence cut fluorescence.	<u>and</u>		
	5476	5479	31	Limestone,	tan IVFA + C5, oil staining and fluorescence as above.			
	5479	5480	1 9	Limestone,	IVFA + C2, shows as above.			
	5480	5481	1	Limestone,	IVFA + C ₂ , spotty to uniform oil staining with fluorescence cut fluorescence.	ce and		
	5481	5483	21	50% Limest	one, light gray-black IVFA + B3, 50% chert, black, in part	white.		

PD	4-B	8.50

WEEK ENDING.			
	5483		51,86
CORE EDOM	240.2	T0	2400

AREA OR FIE	ELD N.	Desert	Creek	
COMPANY_	Shel?	l 0il		•
LEASE AND	WELL N	o	<u>L</u>	

	CORE	S EXAMI	NED BY.	Bacheller LEASE A	ND WELL	NO	1
NO.	FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL-GAS
-	<u> </u>	<u> </u>					CORE OR DITCH
2	5483	5486	31				See
	5483	5484	18	65% Limestone, medium brown - gray, III-I F-MA+B _{tr} . Sightly fractured. Bleeding oil from fractures and a few pores. Fossiliferous with a few crinoid rings, Shell fragments and micro-fossils (forams).			Description
				35% Chert, light blue, mottled medium brown, translucent. Chert forms as stringers to 2" thick and blobs to 3" diameter.			
	5484	5)485	11	65% Limestone, as above, stylolitic in part, bright yellow fluorescence, milky white cut fluorescence on fractures and in few pores.			
		:		35% Chert as above.			
	5485	5486	11	65% Limestone as above. Shows as above.			
				35% Chert, as above.			

CORES EXAMINED BY___

SHELL OIL COMPANY

CORE FROM 5487 TO 5517

Bacheller

AREA OR FIELD	N.	Desert	Creek	
COMPANY	She]	1 0il		
LEASE AND WELL		٦		

NO.	FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL— GAS
		···;			<u> </u>	<u> </u>	CORE OR DITC
3	5487	5517	301				See Description
	5487	5488	1,	Limestone, medium brown - brown gray, III VF - MA, bioclastic in part, slightly argillaceous-stylolitic in part, brachiopods and crinoid stems or echnoid spines.			bescription
	5488	5489	Ţ.	Limestone, light medium brown, III M-LA + C _{tr} bioclastic with argillaceous matrix. Matrix is also III VF-FA, fossiliferous as above. Oil stained in part. Petroleum odor, uniform pale gold-yellow fluorescence and milky white cut fluorescence. Core bled slightly after warming up in sun.	r		
	5489	5490	1 :	Limestone, III M-LA + Ctr as above. Whole small brachiopods, good uniform oil staining, fluorescence and cut fluorescence as above.			
	5490	5491	1,	Limestone. III VFA, becoming III FA + B1. Shows as above.			
	5491	5492	1.	Limestone, III VFA + B _l as above with numerous crinoid rings. Shows as above.			
	5492	5493	ינ	Limestone, III VFA + B ₁ , shows as above.		 	
	5493	5494	J.	Limestone, gray, brown, III VFA, medium argillaceous, shows as above.			
	5494	5495	1'	Limestone, III VFA slightly argillaceous, slightly fossiliferous, slightly spotty oil staining, fluorescence and cut fluorescence.			
	5495	5496	1.1	Limestone, medium brown, III-IVFA, slightly argillaceous, stylolitic.			
	5496	5497	1'	60% Shale, dark gray brown-dark gray, medium calcite interbedded with and grading into limestone.			
				40% Limestone, dark brown gray, IVF-FA, very argillaceous.			
	5497	51,98	1'	Limestone, dark gray brown, III FA, slightly argillaceous.			

PD	4-B	8-	50

CORES EXAMINED BY....

SHELL OIL COMPANY

WEEK	ENDING_		
CORE	FROM	то	

Bacheller

AREA OR FIELD	N.	Des	sert	Creek	
COMPANY	She	11	Oil		st somew
LEASE AND WELL			1		

	CONE	> 160/A/(VIII	.,				
NO.	FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS CORE OR DITCH
]				+	İ	
3	Cont *6 5498		18	Limestone, light gray, III MA, colitic, thoroughly cemented with clear calcite.			See Description
	5499	5500	, ,	Limestone, light gray - light gray brown, III F-MA + B + C psuedoolitic. Some fractures and vugs filled with calcite. Good spotty gold - yellow fluorescence. Cut fluorescence, milky white. Oil staining is predominantly along vertical fractures. Core bled oil and salt water immediately. In some cases the porosity is interconnected, but generally appears not interconnected.			
	5500	5501	11	Limestone, III F-MA + B2 + Ctr as above. Shows as above.			
	5501	5502	וֹ בּי	Limestone, light medium brown gray, III F- MA + B _l only rare vertical fractures. Psuedoclitic, spotty fluorescence and cut fluorescence as above.			
	5502	5503	.13	Limestone, III F- MA + B ₁ as above, <u>fluorescence and cut fluorescence as above</u> ,			
	5503	5504	ינ	Limestone, III F-MA + B ₁ as above, stylolitic.			
	5504	5505	וֹינ	Limestone, medium gray brown, III-IVF-FA stylolitic.			
	5505	5506	ıî ^	<u>Limestone</u> , light medium gray brown, III F- MA psoedoolitic, some calcite has completely filled numerous pores.			
	5506	5507	1'	Limestone, as above.			
	5507	5508	וֹי י	Limestone, medium gray brown, I-III VFA, slightly argillaceous with very argillaceous and micaceous stringers and seams, stylolitic.			
	5508	5509	1'	Limestone, as above, but no stylolytes.			
	5509	5510	וֹיִי	Limestone, as above, rare micro-foraminifera becoming light brown in part.			

PD	4-B	8-	50

CORES EXAMINED BY_

SHELL OIL COMPANY

WEEK END	ING	· · · · · · · · · · · · · · · · · · ·	
CORE EROI		TO	

Bacheller

AREA OR FIELD	N. Desert Creek	
COMPANY	Shell Oil	
LEASE AND WELL	No. 1	

NO.	FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE		OBSERVED DIP	CORE INDICATIONS OIL— GAS
					<u> </u>		CORE OR DITCH
3	Cont'd 5510	5511	1'	Limestone, top part of foot has limestone as shown above with micro foram and colonial corals. Bottom of foot is light brown I-III VFA with no argillaceous stringers or streaks.			See Description
	5511	5512	1'	Limestone, as above in bottom of foot, very slightly argillaceous with forams.			
	5512	5513	1'	Limestone, as above, medium brown in part, slight argillaceous streaks, Fusulinids and rare micro-forams.			
	5513	55714	1'	Limestone, medium brown gray, III FA - fossiliferous with rare fusulinids and other minute fragments. Stylolitic in part.			
	5514	5515	1'	Limestone, light bluish gray, III FA, rare fossile fragments, slightly argillaceous.			
	5515	5516	1'	Limestone, as above, becoming slightly darker in color and medium argilla- ceous. No fossils.			
	5516	5517	1 '	Limestone, as above, medium argillaceous - few poorly preserved Fusulinids, slightly salty taste.			·

WEEK ENDING 5517 5567 CORE FROM

CORE RECORD

N. Desert Creek Shell Oil COMPANY_

	CORE	S EXAMI	NED BY_	Bacheller	LEASE	AND WELL	ΝΟ]	
NO.	FROM	то	RECOV- ERED	FORMAT	TIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS
		P*P*C*9	501				 	CORE OR DITCH
<u>ķ</u>	5517 5517	5567. 5518	I.		ium brown, light brown. III FA - slightly argillaceous, ulinids in poor preservation.			See Description
	5518	5519	18	Limestone, as a	above.			
	5519	5520	1:		above, but in part medium-dark brown and medium argillaceou eaks, stylolitic.	5		·
	5520	5521]. [‡]		above, predominantly medium brown, medium argillaceous eaks. Stylolitic.			
	5521	5522	1,	<u>Limestone</u> , as a	above, numerous fusulinids.			
	5522	5523	1.	argi	ht medium brown to gray brown, III FA \star B ₂ , slightly medium illaceous, fair fusulinids, spotty fluorescence, gold-white e-white cut fluorescence.			
	5523	5524	<u> </u>		FA + B ₂ + C ₅ , 80% fluorescence, and cut fluorescence, strongleum odor.	<u>ıg</u>		
	5524	5525	1'	Limestone, III oil	FA + B ₂ + C ₅ , 80% fluorescence and cut fluorescence. Dead staining in some vugs.			
	5525	5526	J,	Limestone, III	FA + B ₂ + C ₁₀ , 75% fluorescence and cut fluorescence.			
	5526	5527	1	Limestone, III	FA + B ₂ + C ₁₀ , 75% fluorescence and cut fluorescence.			
	5527	5528	ב י	FA.	ht medium brown grading to light medium brown gray, III VF Very stylolitic with 10% faint fluorescence along stylolints. Some secondary calcite deposited in a few vugs.			
	5528	5529	1'	Limestone, III	VF - FA.			
	5529	5530	בי י		ium gray to gray-brown I-III VFA. Stylolites appear to e horizontal fracture planes closely spored.			

PD	4-8	8.	50

CORES EXAMINED BY...

SHELL OIL COMPANY

WEEK ENDING.	
CORE FROM	то

Bacheller

AREA OR FIELD N. De	esert Cr	e ek
COMPANY She]	11 0il	`
LEACE IND WELL NO	1	4

CORES EXAMINED BY						10	
NO.	FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL— GAS CORE OR DITCH
	 						CORE OR DITCH
14	Cont'd 5530	5531	J.8	Limestone as above, with few forams.			See Description
	5531	5532	ıî	Limestone as above, but with occassional irregular shaly streaks.			- 0001-p (2001
	5532	5533	1,	Limestone as above.			;
	5533	5536	31	Limestone, light medium gray-brown I-VFA. Brachiopods. Numerous tight closely spored horizontal fractures as above, some vugs filled sith secondary calcite.			
	5536	5537	1'	Limestone, I-III VFA, very little secondary calcite.			
	5537	55 3 8		Limestone, I-III VFA, medium argillaceous and dolomitic in part. Top half separated from bottom half with 1/2" black shale stringer and stylolite.			
	5538	5539	1:	Limestone, medium light gray-brown and brown-gray, I-III VFA medium argillaceous and medium dolomitic.			
	5539	5540	1,	Limestone, medium gray, brown-gray, III VF-F + C2. Slightly argillaceous, dead oil in a few of the pores.			
	5540	5541	7.8	Limestone, medium light gray, III F-LA. Bioclastic with fragments and grains of unidentifiable fossils.			
	5541	5543	21	Limestone, III VF-LA + C2, spotty yellow fluorescence, and blue-white cut fluorescence.			
	5543	5544	1'	Limestone, I VFC5*D5. 60% uniform fluorescence and cut fluorescence.			
	55111	5545	1.	Limestone, I VFC +Dc, with vugs up to 1/2" diameter some dead oil staining, 80% fluorescence and cut fluorescence on some vugs interconnected	•		
	5545	5546	1	Limestone, light medium gray I VFC ₂ +D ₁₀ dead oil covering numerous vug surfaces. Good petroleum odor and 75% fluorescence and cut fluorescence, fragments and whole shells of brachiopods.			

PĐ	4-B	8-50	

WEEK ENDING______

CORE FROM_____TO_____

SHELL OIL COMPANY

CO	RF	RE	CO	RD

AREA OR FIELD_	N. Desert Creek
COMPANY	Shell Oil
	3

	CORE	S EXAM	NED BY	Bacheller	E AND WELL	NO	1
NO.	FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL— GAS
							CORE OR DITCH
\$ 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1	Cont ¹ d 5546	5567	21.	Limestone, (IVF C + D) as above. Visible porosity varies from 10% to 40 in places with an estimated over all porosity of 20%. Good petroliferous odor and 80% fluorescence and cut fluorescence. Occasionally mud was found in vugs and channels in the center of the core when it was broken open.			See Description

WEEK ENDING. 5567 _t 5600.5 CORE FROM

CORE RECORD

AREA OR FIELD N. Desert Creek Shell Oil COMPANY...

		FROM_ S EXAM	INED BY.	Bacheller	LEA:	SE AND V	WELL I	10. N. D	esert Creek
NO.	FROM	то	RECOV- ERED		FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	s	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL— GAS
			ERED						CORE OR DITC
5.5	5 5 57 5567	5602 5568	33.51	<u>Limestone</u> ,	medium light gray-brown - medium gray, I VFA + D5 and III F D5 fossiliferous, 60% gold-yellow fluorescence, white - blue - we cut fluorescence. Some surfaces have dead oil staining in vu	<u>nite</u>			
	5568	5569	I.	<u>Limestone</u> ,	as above, I-III VFA + C5+ D10. 70% fluorescence and cut fluocence.	res-			
	5569	5570	1.	Limestone,	as above, I-III VFA + C5+ D10, 70% fluorescence and cut fluorescence.	es-			
	5570	5571	<u>]</u>	Limestone	medium gray, IVFA+D5-Vugs filled with calcite. 20% fluoresce and cut fluorescence.	nce			
	5571	5572	1'	Limestone,	as above, I VFA + D2, shows as above.				
	5572	5573	ויו	Limestone	as above, medium gray - brown-gray, III II VFA, very argillac	eous			
	5573	5574	l'	Limestone,	medium brown III VF-FA, medium argillaceous. 40% fluorescence and cut fluorescence.	<u>e</u>			
	5574	5575	11	Limestone,	as above, III VF-FA, 95% fluorescence and cut fluorescence.				
	5575	5576	וֹינ	Limestone	as above, III VF-FA + B ₁₋₃ , 60% fluorescence and cut fluoresc	ence.			
	5576	5578	21	<u>Limestone</u> ,	as above, III VFA + B ₁₋₃ , fossiliferous, 25% fluorescence and cut fluorescence.	_			
	5578	5579	וי	Limestone	as above, III VFA + B ₁₅ , 60% fluorescence and cut fluorescence	<u>e</u> .			
	5579	5581	21	Limestone	light gray - medium brown, III VF+C ₁₀ (VFA in small spots), shows as above.				
	5581	5582	1'	Limestone,	light - medium gray, III F-MA, argillaceous in thin irregular streaks. No shows.	•			
								2 2	AND (20,100%)

PD	A-B	A.	50

WEEK ENDING	
CORE FROM	TO

CORE RECORD

AREA OR FIELD_	N. Desert Creek	
COMPANY	Shell Oil	

LEASE AND WELL NO

	CORE	S EXAM	NED BY.	Bacheller	AND WELL	NO	
NO.	FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL-GAS
							CORE OR DITCH
5	Cont'd						See
	5582	5583	1*	Limestone, as above, but fossiliferous. 0-40% spotty fluorescence and cut fluorescence as above.			Descriptic
	5583	5584	1'	Limestone, light gray, III VFA, medium argillaceous. Stylolitic.			
	5584	5585	1'	Limestone, as above. Fossil fragments.			
	5585	5586	1	Dolomite, light - medium gray, III FA+B3- medium argillaceous and slight] calcareous. 70% fluorescence and cut fluorescence as above.	У		
	5586	5587	יו	Dolomite, light - medium gray-brown, III FA, medium argillaceous and slightly calcareous. 20% fluorescence and cut fluorescence.			
	5587	5588	1'	Dolomite, medium brown, III F Bg, rare anhydrite inclusion, slightly calcareous. 80% fluorescence and cut fluorescence.			
	5588	5590	21	Dolomite, III FA + B7-10+C7-10, 90% fluorescence and cut fluorescence.			
	5590	5591	1'	Dolomite, III FA + B7-10 and C7-10, 20% fluorescence and cut fluorescence	•		
	5591	5593	21	Dolomite, medium brown, III FA+B3, medium argillaceous with thin shale streaks. Shows as above.			•
	5593	5594	11	Dolomite, III FA+B ₁₀ , 60% fluorescence and cut fluorescence.			
	5594	5595	1'	Dolomite, as above, becoming very argillaceous and no shale streaks and soft. No shows.			
	5595	5597	21	Dolomite, medium brown III VFA, very argillaceous, slightly calcareous.			
	5597	5598	1'	Dolomite, as above, but with rare limestone nodules, brown, III FA, to 1 in diameter and 2 long, scattered.			
	5598	5599	1'	Dolomite, as above, medium calcareous and becoming hard, fossiliferous.			

PD	4-B	8.	50

WEEK ENDING_____

CORE FROM_____TO____

SHELL OIL COMPANY

AREA OR FIELD.	N. Desert Creek	
COMPANY	Shell Oil	٠,

CORES EXAMINED BY		NED BY_	Bacheller	LEASE AND WELL NO.			1	
NO.	FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE		SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS
			1					CORE OR DITCI
5	Cont'd						!	
					!			See
	5599	5600	1'	50% Shale, black, slightly calcareous and slightly micaceous.				Description
			*	50% Dolomite, as above.			i	
	5600	5600	-51					
	3000	50002	•5.	Shale, as above.				
								~
							;	
			4					
							"	

PHILLIPS PETROLEUM COMPANY

BARTLESVILLE, OKLAHOMA

November 30, 1964

Ratherford Unit, San Juan County, Utah - Pressure Maintenance -Expansion of Injection Program

Utah Oil & Gas Conservation Commission 310 Newhouse Building Salt Lake City, Utah

Attention Mr. Cleon B. Feight

Gentlemen:

The Oil and Gas Conservation Commission of the State of Utah by its order entered in Cause 63 dated September 13, 1961, approved Phillips Petroleum Company's application for approval of a pressure maintenance program for the Ratherford Unit. Subsequent approvals have been given for modifications in the injection program as originally submitted, the last such approval was granted on April 13, 1964, relative to Phillips' submittal of April 2, 1964.

Pursuant to Item 3 of the Commission's letter of September 13, 1961, Phillips Petroleum Company respectfully requests that the Commission, or its designated representative, approve the following changes in the pressure maintenance program:

- 1. Convert to injection service wells Nos. 7-21, 7-43, 12-44, 18-21, 20-21, 29-41, 21-23, 16-41, and 15-41. (See attached plat.)
- 2. Attempt to inject 52,000 to 56,000 barrels of water per day to replace about 120% of reservoir voidage on a current basis.

All work for which you have given prior approval has been completed. Nevertheless, existing injection wells will not accept a sufficient volume of water to permit realization of the goal outlined above in Item 2. For this reason, conversion of additional wells to injection service is proposed. No need for other modification of the pressure maintenance program is indicated at this time.

A majority of the Working Interest Owners in the Ratherford Unit have approved this proposal. Your approval is solicited.

Respectfully submitted,

Earl Griffin, Manager Production Division

JEC:emm Attach. December 8, 1964

Phillips Petroleum Company Bartlesville, Oklahoms

Attention: Mr. Rarl Griffin, Manager Prod. Division

Dear Sir:

The following changes in your pressure maintenance program for the Ratherford Field are hereby approved as per your request.

- 1. Convert to injection service wells nos.7-21, 7-43, 12-44, 18-21, 20-21, 29-41, 21-23, 16-41, and 15-41.
- 2. Attempt to inject 52,000 to 56,000 barrels of water per day to replace about 120% of reservoir voidage on a current basis.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEXCET EXECUTIVE DIRECTOR

cbfjkgw

14 PERMIT NO

L. ED STATES DEPARTMENT OF THE INTERIOR (Other instruction, in reverse side)

GEOLOGICAL SURVEY

SUBMIT IN TR

\TE*

Form approved. Budget Bureau No. 42-R1424.

,	LEASE	DESIGN	ATION	AND	SERIA	L NO.

12. COUNTY COLUMN 13. STATE

San Juan

14-20-603-246

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTER OR TRIBE NAMI
1.	7. UNIT AGREEMENT NAME
OIL GAS WELL OTHER	59-1-4192
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
Phillips Petroleum Company	Ratherford Unit
3. ADDRESS OF OPERATOR	9. WELL NO.
P. O. Drawer 1150, Cortez, Colorado 81321	12-44
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	10. FIELD AND POOL, OR WILDCAT
660' from South Line, 660' from East Line SE SE 12	11. SEC., T., R., M., OR BLE. AND SURVEY OR ARBA

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data						
	NOT	CE O	f INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST	WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF REPAIRING WELL	1
	TURE TREAT T OR ACIDIZE		MULTIPLE COMPLETE ABANDON*		FRACTURE TREATMENT SHOOTING OR ACIDIZING ABANDONMENT*	
REPAI (Othe	er) ('compart '	L.	change plans		(Other) (Note: Report results of multiple completion on Completion or Recompletion Report and Log form.)	Well

15. ELEVATIONS (Show whether DF. RT. GR. etc.)

4710 KB

(Other) Convert to Water Injection 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Pull pumping equipment. Perforate Desert Creek from 5449-53; 5468-78; 5495-5560; 5529-32; 5543-51; 5558-70' with 2 jet shots per fect. Rerun tubing with Marlet liner, acidize above perforations and perforations from 5578-86', 5590-98' with approximately 3800 gallone acid and convert to water injection.

Present Production: 11-28-64: 37 BOFD, 128 MCFGPD, O BWPD.

18. I hereby certify that the foregoing is true and corre	et	
SIGNED C. M. Boles	TITLE Area Superintendent	DATE LAU-
(This space for Federal or State office use)	, ,	
APPROVED BY	TITLE JANA JULE	DATE

*See Instructions on Reverse Side

Porm 9-331 (Ma) 1963) DEPA	I ⊃ STATES ARTM∟NI OF THE INTERI	SUBMIT IN TR (Other instruct. re-	Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOGICAL SURVEY NOTICES AND REPORTS (proposals to drill or to deepen or plug to PLICATION FOR PERMIT—" for such positions and proposals to drill or to deepen or plug to PLICATION FOR PERMIT—" for such positions are proposals to drill or to deepen or plug to PLICATION FOR PERMIT—" for such positions are proposals to drill or to deepen or plug to PLICATION FOR PERMIT—" for such positions are proposals to drill or to deepen or plug to PLICATION FOR PERMIT—" for such positions are proposals to drill or to deepen or plug to PLICATION FOR PERMIT—" for such positions are proposals to drill or to deepen or plug to PLICATION FOR PERMIT—" for such positions are proposals to drill or to deepen or plug to PLICATION FOR PERMIT—" for such positions are proposals to drill or to deepen or plug to PLICATION FOR PERMIT—" for such positions are proposals to drill or to deepen or plug to PLICATION FOR PERMIT—" for such positions are plug to PLICATION FOR PERMIT—" for such positions are plug to PLICATION FOR PERMIT—" for such positions are plug to PLICATION FOR PERMIT—" for such put proposals are plug to PLICATION FOR PERMIT—" for such put proposals are plug to PLICATION FOR PERMIT—" for such put proposals are plug to PLICATION FOR PERMIT—" for such put proposals are plug to PLICATION FOR PERMIT PERM	ON WELLS	11-20-603-216 6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO
2. NAME OF OPERATOR	Water Injection (e)	11	7. UNIT AGREEMENT NAME SILLI AL 192 8. FARM OR LRASE NAME
3. Address of operator P. O. Dra	os Petroleum Company wer 1150, Cortez, Colora	ado 81321	Ratherford Unit 9. WELL NO. 12944
See also space 17 below.) At surface	TEL, SE SE 12	State requirements.*	10. FIRED AND POOL, OR WILDCAT 11. SEC., T. R., M., OR BLK. AND SURVEY OR AREA 12.415-23E SIEM
14. PERMIT NO.	15. ELEVATIONS (Show whether DF 4710 KB	F, RT, GR, etc.)	12. COUNTY DECEMBER 13. STATE
	k Appropriate Box To Indicate N		her Data
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) Convert to (Note: Report results o	ALTERING CASING ABANDONMENT* Water Enjects on well in Report and Log form.
17. DESCRIBE PROPOSED OR COMPLET proposed work. If well is nent to this work.) * 5-7-65 through 5-11-	ED OPERATIONS (Clearly state all pertinent directionally drilled, give subsurface loca	it details and give pertinent dates. I	ncluding estimated date of starting any
Moved in well service 5449-53, 5468-78, 54 tagged fillup at 558 hooked well up for w	e unit, laid down rods a 95-5500, 5529-32, 5543-57, bailed hole to 5603 ater injection. Started oil well to water inject	I and 5558-70 with 2 j , ran 2" tubing with B injecting water 5-8-6	et shots per foct, aker Tension Packer,
Previous Production :	from Desert Creek Zone,	Paradox Formation, Gre	ater and Fields
39 BOPD, 141 MOFGPD,	O EMPD.		
Present Injection Rat	te - Desert Creek Zone,	Paradox Formation, Gre	ater Anoth Field:
2500 BMPD on vacuum.			
SIGNED C. M. Bo	113 m 12-	trict Superintendent	DATE 6-23-65
(This space for Federal or Str APPROVED BY	TITLE		DATE

*See Instructions on Reverse Side

DEPARTMENT OF THE INTERIOR (Other instructions on reverse side) Form 9-331 Form approved.
Budget Bureau No. 42-R1424. (May 1963) 5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-246 **GEOLOGICAL SURVEY** 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS Navajo Tribe (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) 7. UNIT AGREEMENT NAME Water Injection Well 3W-I-L192 WELL OTHER WELL 2. NAME OF OPERATOR 8. FARM OR LEASE NAME Millies Potroleum Co. Ratherford Unit 9. WELL NO. 3. ADDRESS OF OPERATOR Drawer 1150, Cortez, Colorado 1244 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 10. FIELD AND POOL, OR WILDCAT Greater Ameth Field 660' 7814 660' FEL. SE SE 12 19-419-232, G.L.B.N. 12. COUNTY OF PARISH 14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) MYLO! KE

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF REPAIRING WELL ALTERING CASING MULTIPLE COMPLETE FRACTURE TREATMENT FRACTURE TREAT X SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING ABANDONMENT* REPAIR WELL CHANGE PLANS (Other) (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) * proposed work. I nent to this work.)

13.

In attempt to increase water injection rate, treat well with 2000 gallons of 15% regular acid with 2 gallors A-110 additive per 1000 gallors of acid, 100% of J-155, 2000 gallons of 19% regular acid with 2 gallons A-110 additive per 1000 gallons of scid.

Prosent Injection Rate: 2553 BMPD at 370%.

(Other)

8. I hereby certify that the foregoing is true and correct SIGNED C. K. Bolos	District Superintendent	10-13-65 DATE
(This space for Federal or State office use)		
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE

December 15, 1965

Philips Petroleum Company Drawer 1150 Cortes, Colorado

Contlamon:

Upon checking our files we note that we have not received subsequent reports for the following wells:

RATHERFORD UNIT #9W21, Sec. 9, T. 41 S., R. 24 R.

Shoot or Asidise

MATHERPORD UNIT #12-31, Sec. 12, T. 41 S., R. 23 E.

Perforate Ismey & Acidise

MATHERFORD UNIT #18943, Sec. 18, T. 41 S., R. 24 E. Shoot or acidise

PATHERFORD UNIT #18W21, Sec. 18, T. 41 S., 1, 24 E.

Shoot or acidise

PATHERPORD UNIT #12M4, Sec. 12, T. 41 S., R. 23 E.

Shoot or acidiza

RATEERFORD UNIT #21W41, Sec. 21, T. 41 S., R. 24 E. Shoot or acidine

MATHEMPORD UNIT #21W21, Sec. 21, T. 41 S., R. 24 K.

Shoot or acidise

MATHERPOOD UNIT #15H23, Sec. 15, T. 41 S., R. 24 E,

Shoot or scidice

RATHERPORD UNIT #16843, Sec. 16, T. 41 S., R. 24 E.

Shoot or acidise

Your attention to this matter will be greatly appreciated.

Very truly yours,

OIL & GAS COMSERVATION CONCLESION

AMERITE R. HAMSHIS RECORDS CLIES

arb

Recleaures: OGCC-1b

Form 9-331 (May 1963)	DEPAR	TED STATES TMENT OF THE IN GEOLOGICAL SURV	ITERIOR	(Other Inches	ATE*		oved. eau No. 42-R142 N AND SERIAL NO.
	his form for pro	OTICES AND REPO	or plug back t	o a different reservoir.	6.	IF INDIAN, ALLOTT	EE OR TRIBE NAME
OIL GAS WELL WEL	L OTHER	Natar Injection	m well		7.	UNIT AGREEMENT	NAME
2. NAME OF OPERATO	R Frid	Lilipo Polival-em (8. 1	FARM OR LEASE N	AMB Bridge
3. ADDRESS OF OPERA	TOR	seer LLS), Corbss,	Colors	de algel	9.	WELL NO.	
4. LOCATION OF WELL See also space 17 At surface	(Report location below.)	n clearly and in accordance v	vith any State	requirements.		FIELD AND POOL,	Lands (Sald
			(1111)		11.	SEC., T., R., M., OF SURVEY OR ARI	BLK. AND
14. PERMIT NO.		15. ELEVATIONS (Show w	hether DF, RT, (IR, etc.)	12	COUNTY	13. STATE
16.	Check /	Appropriate Box To Ind	icate Natur	e of Notice, Report,	or Other	Data	
	NOTICE OF INT	TENTION TO:		su	BSEQUENT	REPORT OF:	
TEST WATER SHU FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL		PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS		WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other)	*	repairing Altering Abandon M	CASING
(Other)	السيب. ا			(Note: Report r	esults of m	ultiple completion Report and Log i	n on Well form.)
17. DESCRIBE PROPOSE proposed work nent to this wor	If well is dire	OPERATIONS (Clearly state all ctionally drilled, give subsurf	pertinent det ace locations	and measured and true	dates, inclu vertical der	ding estimated doths for all marke	ate of starting and are and zones pert

PRODUCT LIMECTEM SATER 3500 BEPS at 2804 through 20/64" chairs.

SIGNED SIGNED		Materiot	Support stone some		DATE	
(This space for Federal or State office use)			***	,		*************************************
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE			-	DATE	<u> </u>

PHILLIE FERROLLE COMPAGE P. C. Drawer 1150 Cortez, Colorado

February 28, 1966:

In re: Ratherford Unit Monthly Operating Report

January 1966

Page No. 2

III. SUCKER ROD FATLURIS

There were 30 rod jobs required during Jamury.

TYPU JOR
Rod Breaks (Includes pin and couplant failures)
Rod Replacements (Includes partial string and coupling replacements performed at time of above breaks)

Municer

Municer

Municer

IV. WORKOVERS

Ratherford Unit 9-14 (Clean out)

On January 12, 1966 pulled rods and tubing. Found top of carbony at 55631. Cleaned out 7' of frac sand and coment with hydrochitic bailer to 5570! TD. Reran tubing and rods, returned well we producing status 1-13-66. Production increased from A BO and 61 DW per day before the cleanout to 10 BO and 138 BY for day following the cleanout.

Ratherford Unit 12514; (Acid Job)

On January 19, 1966 acidized well through 2" bars steel tabing and packer with 2000 gallons 15% regular acid, 250 gallons temporary block, and 2000 gallons 15% regular acid. Injectivity increased from 1639 BMPD at 490# before the track out to 3500 BMPD at 280# (curtailed injection rate) after the treatment.

Ratherford Unit 15:23 (Acid Job)

On January 6, 1966 acidized well through 25 tubby and Harlow lines and packer with 15,000 gallons 28% acid, 16,000 callons fresh water, and 500 gallons salt plug in two stages of follows: First stage 7500 gallons 28% acid followed by 7500 gallons fresh water and 500 gallons salt plug. Second state 7500 gallons fresh water and 500 gallons salt plug. Second state 7500 gallons 28% acid followed by 8500 gallons fresh water. Indeed with incompany from 160 BJPD at 2620# before the treatment to 350 JLT and 350 following the treatment.

DEPARTMENT OF THE INTERIOR (Other Instruction. verse side) **GEOLOGICAL SURVEY**

SUBMIT IN Th

\TE*

Form approved. Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO. 6. IF INDIAN, ALLOTTER OR TRIBE NAME

SUNDRY	NOTICES	AND	REPORTS	ON 1	WELLS
Do not was this form fo		dull on to	doopen on place	hack to	a 41#amam4 massame

(Do not use this form for pro Use "APPL"	Meraje	
OIL GAS OTHER	Water Injection Well	7. UNIT AGREEMENT NAME
NAME OF OPERATOR Phillips	Petroleum Go.	8. FARM OR LEASE NAME Entherford Unit
Address of operator	150, Cortes, Colorado 81321	9. WELL NO.
 LOCATION OF WELL (Report location See also space 17 below.) At surface 	clearly and in accordance with any State requirements.*	10. FIELD AND POOL, OR WILDCAT
660° 1	rem South Line; 660' from East Line 12	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA. 12-415-235 S. L. B. K.
4. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12 COUNTY OF TAXABLE 18. STATE

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF REPAIRING WELL MULTIPLE COMPLETE ALTERING CASING FRACTURE TREAT FRACTURE TREATMENT SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING ABANDON MENT* REPAIR WELL CHANGE PLANS (Other) (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Acidise well with 6,000 gallons 15% acid and return to injects

PRESENT INJECTION NATE: 970 BUPD at 5650.

18. I hereby certify that the foregoing is true and correct	All and All and		32-22-44
(This space for Federal or State office use)	TITLE	DATE	
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE	· ,

ITED STATES SUBMIT IN T. CATE* On re ITED STATES GEOLOGICAL SURVEY

Form approved. Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTER OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS	SUN	NDRY	NOTICES	AND	REPORTS	ON	WELLS
-------------------------------------	-----	-------------	----------------	-----	----------------	----	-------

	(Do not use this form for propos Use "APPLICA	als to drill or to deepen or plug TION FOR PERMIT—" for such	back to a different reservoir. proposals.)	
1.	OIL GAS OTHER	water Injec	tion well	7. UNIV AGRESSENT NAME
2.	NAME OF OPERATOR Phillips Petrol	man Co.	,	8. tank or least negatives.
3.	ADDRESS OF OPERATOR Drawer 1150, Co	rtes, Colo. \$1321		9. WELE NO.
4.	LOCATION OF WELL (Report location of See also space 17 below.) At surface	learly and in accordance with an	y State requirements.*	Orenter Aboth
	660' From South I	ine; 660' From Rast	Line, SE SE 12	11. SEC. T., R. M., OR BLE. AND SURVEY OR INTA
14.	PERMIT NO.	15. ELEVATIONS (Show whether	DF, RT, GR, etc.)	12. COUNTY OF PARTY IS. STATE
16.	Check Ap		Nature of Notice, Report, or C	Other Dala
	FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS	Completion or Recomp	REFAIRING WELL ALTERING CASING ABANDON MEMOR* s of multiple completion on Well letton Report and Log form;)
17.	DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is direction nent to this work.) *	RATIONS (Clearly state all pertinonally drilled, give subsurface lo	ent details, and give pertinent dates cations and measured and true vertic	, including estimated date of starting an all depths for all markers and zones perti

On January 12, 1967 seidised Desert Creek perforations 5449-5596 04 with 6000 gallons regular 15% seid in four equal stages separated by three equal 1000 gallon batches of salt water with 3000f salt as blocking agent.

PREVIOUS INJECTION RATE: 908 BWPD at 485%.	
PRESENT INJECTION RATE: 3500 BMPD on vacuum.	CHOST HOROTO SERVING THE STREET OF THE SERVING
18. I hereby certify that the foregoing is true and correct	
SIGNED C. M. Boles TITLE Dist. Supty	DATE E E
(This space for Federal or State office use)	
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	### DATE

(May 1963) DEI	D STATES PARTMENT OF THE INTER GEOLOGICAL SURVEY	(Other Instances	Form approved. Budget Bureau No. 42-R1424 5. LEASE DESIGNATION AND SERIAL NO.
	NOTICES AND REPORTS (for proposals to drill or to deepen or plug learning for PERMIT—" for such p		6. IF AMDIAN, ALLOTTEE OR TRIBE NAME
OIL GAS	Water Inject	ion well	7. UNIT AGREEMENT MAME
WELL WELL	OTHER		8. FARM OR LEASE NAME
Phillips P	Petroleum Co.		9. WELL NO.
	50, Cortes, Colo. 81321		1544
l. LOCATION OF WELL (Report I See also space 17 below.) At surface	location clearly and in accordance with any	State requirements.*	10. FIELD AND POOL, OR WILDCAT
660' From 3c	outh Line; 660' From Bast	Line, SE SE 12	11. SEC., T., R., M., OB BLE. AND SURVEY OR AREA
		_	12-415-23E SLEN
14. PERMIT NO.	15. ELEVATIONS (Show whether DE	· · · · · · · · · · · · · · · · · · ·	12. COUNTY OF THEM 18. STATE
16. Ch	neck Appropriate Box To Indicate N	Nature of Notice, Report, or	
NOTICE	OF INTENTION TO:	SUBSI	QUENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	BEPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING ABANDONMENT
SHOOT OR ACIDIZE REPAIR WELL	ABANDON* CHANGE PLANS	SHOOTING OR ACIDIZING (Other)	ADAMOUNTAIN
(Other)		(Nore: Report resul	its of multiple completion on Well appletion Report and Log form.)
regular 15% acid i	i7 acidised Desert Creek ; in four equal stages separ	rated by three equal	
regular 15% acid i		rated by three equal	
regular 15% acid i	in four equal stages separ	rated by three equal	1000 gallon betshes of
regular 15% acid i	in four equal stages separ	rated by three equal	1000 gallon betshes of
regular 15% acid i	in four equal stages separ	rated by three equal	1000 gallon betshes of
regular 15% acid i	in four equal stages separ DOG salt as blocking ages	rated by three equal	1000 gallon betshes of
regular 15% acid is salt water with 30 PREVIOUS INJECTION	in four equal stages separ NOOF salt as blocking ages RATE: 908 BMPD at 4854	rated by three equal	1000 gallon betshes of
regular 15% acid is salt water with 30	in four equal stages separ NOOF salt as blocking ages RATE: 908 BMPD at 4854	rated by three equal	1000 gallon betshes of
regular 15% acid is salt water with 30 PREVIOUS INJECTION	in four equal stages separ NOOF salt as blocking ages RATE: 908 BMPD at 4854	rated by three equal	1000 gallon butshes of
regular 15% acid is salt water with 30 PREVIOUS INJECTION	in four equal stages separ NOOF salt as blocking ages RATE: 908 BMPD at 4854	rated by three equal	1000 gallon butshes of
regular 15% acid is salt water with 30 PREVIOUS INJECTION	in four equal stages separ NOOF salt as blocking ages RATE: 908 BMPD at 4854	rated by three equal	1000 gallon betshes of
regular 15% acid is salt water with 30 PREVIOUS INJECTION	in four equal stages separ NOOF salt as blocking ages RATE: 908 BMPD at 4854	rated by three equal	1000 gallon butshes of
regular 15% acid is salt water with 30 PREVIOUS INJECTION	in four equal stages separ NOOF salt as blocking ages RATE: 908 BMPD at 4854	rated by three equal	1000 gallon betshes of
regular 15% acid is salt water with 30 PREVIOUS INJECTION	in four equal stages separ DOGF salt as blocking ages RATE: 908 BMPD at 445¢ RATE: 3500 BMPD on vacuu	rated by three equal	1000 gallon butshes of
regular 15% acid is salt water with 30 PREVIOUS INJECTION	in four equal stages separ DOGF salt as blocking ages RATE: 906 BMPD at 4454 RATE: 3500 BMPD on Vacuum	rated by three equal	1000 gallon butshes of
regular 15% acid is calt water with 30 PREVIOUS INJECTION PRESENT INJECTION	in four equal stages separately separately self as blocking ages RATE: 908 BMPD at 4856 RATE: 3500 BMPD on vacuum oregoing is true and correct TITLE	rated by three equal	
PREVIOUS INJECTION PRESENT INJECTION 18. I hereby certify that the fo SIGNED C. N. BOX (This space for Federal or APPROVED BY	in four equal stages separation of salt as blocking ages RATE: 906 BMPD at 4454 RATE: 3500 BMPD an vacuum oregoing is true and correct TITLE State office use)	rated by three equal	
PREVIOUS INJECTION PRESENT INJECTION 18. I hereby certify that the formula of the signed of the signed of the space for Federal or	in four equal stages separation of salt as blocking ages RATE: 906 BMPD at 4454 RATE: 3500 BMPD an vacuum oregoing is true and correct TITLE State office use)	rated by three equal	

Form 9-331	Utc. ED STAT	'FC	SUBMIT IN	TRILATE	. l	Form approve	
(May 1963)	PARTMENT OF THE		/O4b !4	ructions on re	-	Budget Bureas SE DESIGNATION	u No. 42-R1424. AND SERIAL NO.
	GEOLOGICAL SU				1_1	-20-603-1	46
	NOTICES AND RE			reservoir.	6. IF I	Maya jo	OR TRIBE NAME
1.	7. UNI	F AGREEMENT NA	ME				
OIL GAS WELL 2. NAME OF OPERATOR		-I-4192 M OB LEASE NAM					
	Phillips Petroleum	Compe				therford U	_
	reser 1150, Cortes,				9. WEL	L NO.	
4. LOCATION OF WELL (Report See also space 17 below.) At surface	location clearly and in accordan	ce with	any State requirements	.*	1 _	LD AND POOL, OR	
	FSL, 660' FEL, SE	SE S	lec. 12		11. se	C., T., B., M., OB B	
						SURVEY OR AREA	
						L2-415-23E	SLEM
14. PERMIT NO.	15. ELEVATIONS (Sho		er DF, RT, GR, etc.)		12. co	JUNEAN TO A STATE OF THE STATE	13. STATE
							O Cases
16.	heck Appropriate Box To	Indica	te Nature of Notice	, Report, or	Other D	ata	
NOTIC	OF INTENTION TO:			SUBSEC	QUENT REP	ORT OF:	:
TEST WATER SHUT-OFF	PULL OR ALTER CASING		WATER SHU	T-OFF		REPAIRING W	TOLL
FRACTURE TREAT	MULTIPLE COMPLETE		FRACTURE 1	TREATMENT		ALTERING CA	SING
SHOOT OR ACIDIZE	ABANDON*		SHOOTING (OR ACIDIZING		ABANDONMEN	T*
REPAIR WELL	CHANGE PLANS		(Other)	. Poport regult	e of multi	ple completion of	n Well
(Other)			Comp	letion or Recom	pletion Re	port and Log for	m.)
Present Injection	on: Average 1414 B	WPD a	it 1388# durin	g Fe b. 19 0	69.		
	ř.						
18. I hereby certify that the f	= -			 			. 4-
SIGNED M	engle !	TITLE _	District Super	rintenden	ե ը	ATR	-69
(This space for Federal or	State office use)			——————————————————————————————————————			
(Into space for rederat Of	State Omce use;						
APPROVED BYCONDITIONS OF APPRO		CITLE _				ATE	
COUDITIONS OF APPRO	, au, IF ANI;				2 00:	Utah O&OC	dn gton, N M. C, Salt Lake
	*See	Instruct	tions on Reverse Sid	le		B ville Denver Pile	

Form 9-331 (May 1963)

SUBMIT IN TRIP UN. STATES

Form approved. Budget Bureau No. 42-R1424.

	G	1/20603	-24.6		
	SUNDRY NOTION (Do not use this form for proposa Use "APPLICA"	6. IF INDIAN, ALLOT	CEE OR TRIBE NAME		
1.	OIL GAS OTHER	7. UNIT AGREEMENT	NAME		
2.	NAME OF OPERATOR			8. FARM OR LEASE N	
	Phillips Petrole	on Company		latherford	unie
3.	ADDRESS OF OPERATOR			9. WELL NO.	
	Drawer 1150, Cor	tez, Colorado 8132	1	12864	
4.	LOCATION OF WELL (Report location cle See also space 17 below.) At surface	early and in accordance with an	y State requirements.*	10. FIELD AND POOL,	OR WILDCAT
	660° FSL, 660° F	EL, SE SE Sec. 12		11. SEC., T., R., M., O. SURVEY OR AR	
				12-418-238	SIBM
14.	PERMIT NO.	15. ELEVATIONS (Show whether	DF, RT, GR, etc.)	12. COUNTY OF PARI	H 13. STATE
		K	710' KB	San Ama	Utah
16.	Check Ap	propriate Box To Indicate	Nature of Notice, Report, or	Other Data	
	NOTICE OF INTENT	FION TO:	SUBSE	QUENT REPORT OF:	
	TEST WATER SHUT-OFF	ULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING	WELL
	FRACTURE TREAT	ULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING	CASING .
	SHOOT OR ACIDIZE	BANDON*	SHOOTING OR ACIDIZING	ABANDONA	(ENT*
	REPAIR WELL C	HANGE PLANS	(Other)		
	(Other)	ts of multiple completion pletion Report and Log			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On April 17, 1969 acidized Desert Creek Zone I and II perforations 5449-53, 5468-78, 5495-5500, 5529-32, 5543-51, 5558-70, 5578-86, and 5590-5598 with 4000 gallons 15% acid in two equal 2000 gallon stages, separated by 1000 gallons salt plug. Resumed injection.

PHEVIOUS INJECTION RATE: 1529 BAPD at 1533/.

PRESENT INJECTION RATE: 3500 BAPD on vacuum.

18. I hereby certify that the foregoing is true and correct,		
SIGNED C. A. B. DIES	TITLE	District Superintendent DATE 5-19-49
(This space for Federal or State office use)		
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE	Orig. & 2 co: USGS, Farmington, H.J 2 co: Utah Office, Salt Lake City

*See Instructions on Reverse Side

1 oc: Deriver

1 ce: Superior Oil, Cortez, Colo

1 cc: File

STATE OF UTAH DIVISION OF OIL, GAS, AND MINING **ROOM 4241 STATE OFFICE BUILDING** SALT LAKE CITY, UTAH 84114 (801) 533-5771

FORM NO. DOGM-UIC-1 (Revised 1982)

SEAL

My commission expires

	(RULE I-	-5 & RULE I-4)						
IN THE MATTER OF THE APPLICATION OF PHILLIPS PETROLEUM COMPANY ADDRESS P.O. BOX 2920 CAUSE NO. C-3(B)								
CASPER, WYOMING INDIVIDUAL PARTNERSHIP X FOR ADMINISTRATIVE APPROVAL INJECT FLUID INTO THE 12W SEC. 12 TWP. 41S SAN JUAN	TO DISPOSE OR	ENHA DISPO LP GA EXISTI	NCED RECOVERY SAL WELL S STORAGE NG WELL (RULE					
	·	PLICATION						
Comes now the applicant 1. That Rule I-5 (g) (iv) Gas storage operations. 2. That the applicant su	authorizes administ	trative approve	nission the follow al of enhanced re	wing: overy injections, disposal or LP				
Ratherford Unit	Well No. 12W44	Field Grea	ter Aneth	County San Juan				
Location of Enhanced Recovery Injection or Disposal Well 12W44	Sec1:	2	Twp. 415	Rge. <u>23</u> E				
New Well To Be Drilled Yes No K	Old Well To Be Conve	rted	Casina Test	Ø No □ Date 5-83				
Depth-Base Lowest Known Wingate Fresh Water Within ½ Mile 1550!	Does Injection Zone C Oil-Gas-Fresh Water \		б⊠ но □	State What 011 & Gas				
Location of Desert Creek Parinjection Source(s) San Juan R		Geologic Name(s and Depth of Sc		reek (5567') Juan River (Surface)				
Geologic Name of Desert Cree	k I & II	Depth of Injection 542	9 to 5598					
a. Top of the Perforated Interval:	b. Base of Fresh	Water:	c. Intervening Thic	kness (a minus b)				
Is the intervening thickness sufficient to a without additional data?	show fresh water will be	protected YES NO	See	Attachment #4				
Lithology of Intervening Zones	See Attachment	#1						
Injection Rates and Pressures	Maximum			B/D				
SD 3-22-80				PSi				
The Names and Addresses of Those to W	hom Notice of Application	on Should be Sent.						
Navajo Tribe, Minerals I	ept., P.O. Box	< 146, Wind	ow Rock, AZ	86515				
Superior Oil, P.O. Box 4	530, The Woodl	lands, TX	77380					
Texaco Inc., P.O. Box 21								
Southland Royalty, 1000	Fort Worth Clu	<u>ib Tower, F</u>	<u>ort Worth, T</u>	X 76102				
State of Wyoming	·)	PHILL	IPS PETROLEU	M COMPANY				
County of Natrona	•		App	oficant				
Before me, the undersigned a known to me to be the person who oath states, that he is duly autho therein, and that said report is tru	ose name is subscrib crized to make the c	ed to the abov	e instrument, w	ho being by me duly sworn on				
Suscribed and sworn to be	fore me this 215	day of	lept_, 19_	83				

My Commission Expires Neover 86

State of

Wyomin Nothry Public in and for Natrona Co., Wyoming

DONALD L. HUDSC Notary Public

- 1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.
- 2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
- 3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
 - 4. Attach Electric or Radioactivity Log of Subject well (if released).
- 5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
- 6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
- 7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
- 8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
- 9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
- 10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
 - 11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
- 12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	8-5/8	1255	80	Surface	Returns
Intermediate none					
Production	5-1/2	. 5624	250	Surface	Returns
Tubing	2	5436		e - Type - Depth of	
PB Total Depth Geol	ogic Name - In Desert Cree	•	h - Top of Inj. In	terval Depth	- Base of Inj. Interval 5598'

FORM DOGM-UIC-2 (Rule I-5 (b) 2 (Revised 1982)

14-20-603-246

(To	be	filed	within	30	days after	drilling	is	comple	ted)
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LEASE NO.

▲ Pi	NO	43	-03	37-	16	405	DIVISION OF OIL, GAS, AND MINING
~ ' '			640	Acres N		•	Salt Lake City, Utah 84114
	ГТ	T	7	П	Т	\Box	COUNTY San Juantec 12 TWP. 415 RGE. 23E
		-	+	1 1	+	+	COMPANY OPERATING Phillips Petroleum Company
	┢╼╅	-+-	+-	╂╼┼	┉	+	OFFICE ADDRESS P.O. Box 2920
	\vdash		+-			+	town Casper state zip Wyoming 82602
w		-		1	-	₩,	1 OWN STATE ZIP 1 OW/./
	\Box			\sqcup		1	FARM NAME WELL NO12W44
							DRILLING STARTED 7-2319 56 DRILLING FINISHED 9.5 19 56
					_ _		DATE OF HIST PRODUCTION $9-6-56$ COMPLETED $9-6-56$
							WELLLOCATED SE & SE & &
		اما	cate W	S »N Corr	ectly	D.	660 FT. FROM SL OF 14 SEC. 8 660 FT. FROM SH OF 14 SEC. 8 660 GROUND 4699.1
			nd Dut	kne Le	180	Rk	(B ELEVATION DERRICK/ROOR -1/10 GROUND -10/2/11

TYPE COMPLETION		
Single Zene		
Multiple Zone	x	
Comingled		

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	Te	Name	From	To
Desert Creek I	5449	5532			
Desert Creek II	5543	5598			

CASING & CEMENT

Casing Set			Cag. Test	Cement				
Size	Wg1.	Grade	Feet	Psi	Sax	Fillup	Тор	
3-5/8	32	J-55	1242	700	395		surface	
5-1/2	17	J-55	5624	1500	250	•	surface	
				,				
משמת	606				TOTAL	56	517	

PBTD 5606				TOTAL DEPTH	5614
PACKERS SET	Baker Tension	Pkr @	5436		
J	RM MUST ALSO BE ATTA	CHED WHE	N FILING PLU	GGING FORM DOC	BM-UIC-6

COMPLETION A	k TEST	DATA BY	PRODUCING	FORMATION
	_			

	•					
ormation De	sert Creek I &	II		,		
PACING & SPACING	40 acre e #C-3(B)					
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery			,	,	
PERFORATED I	5449-53	II	5543-51			
	5468-78		5558-70			
INTERVALS	5495-5500		5578-86			
	5529-32		5590-98			
ACIDIZED?	4-17-69 4000 gal 15%				{	
	Acid				·	
FRACTURE TREATED?	. No					

ITIAL TEST DATA	converted	ι το ι	njector		,	
Date	5-8-65					
Oil, bbl./day						
Oil Gravity						
Gas, Cu. Ft./day		CF		Œ		CF
Gas-Oil Ratio Cu. Pt./Bbl.					Ī.	
Water-Bbl./day	2500				•	
Pumping or Howing						1
CHOKE SIZE					i.	
FLOW TUBING PRESSURE	Vacuum				5.	

A record of the formations drilled through, and partinent remarks are presented on the reverse.

(use reverse side)

I, the undersigned, being first duly swern upon eath, state that th according to the records of this office and to the best/of my knew	is well record is true, correct and complete
Telephone 307-237-3791 Name and title of re	A.E. Stuart Area Manage:
Name and title of re	presentative of company
Subscribed and swern before me this day of	50 22 '83 83

LOCATION: 3FSE DIC 12-7413- R23E	N . COMPLETION: 5.8.65
FIELD: GREATER ANE PESERVOIR: Desert Creek I+II	PRESENT STATUS: S.I.
PKB 4710' GL 4699'	SURFACE CASING: 85/8" 32#
1255' PERFORATIONS: 5149-53 5578-86	PRODUCTION CASING: 51/2" 17#
5468-78 5590-98 5495-5500 5529-32 5543-51 5558-70	
	PACKER: Baker Tension Pkr@ 5436' Tubing: 2"@ 5436'
5436' X X	<u>5449'-</u> <u>5598'</u>
PBTD: 5606' OTD: 5624'	Phillips Petroleum Company

MELL,

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•	•	•	13	•	•		•	•	•	, •	-	•	16	•		•	•	•	⊙	•	→	4	-•-	
	-+-	•	• •	•	•		•	•		•	•	•		•		•				+				
23 .				•	•	11	•	•	20	•			- ◆	•	•	•	•	.	⊕-	•	•	•	•	
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26.		•		· · ·		·•·	••-			•		•	•••		•	•	•		+			. •		
		+				30	⊕		•				•		•	+	•	, "	ė	ľ	2	•	•	RATHERFORD UNIT SAN JUAN COUNTY, 2" = 1 =11+
									+-	•	•		•	•	⊕	+		•		•		 <u>-</u>		RCT 3-83 • eil producer • vacer injector
33			36	•		ىد	•••••	+	18	, 8			⊕ "	•	•		,	4			3	•		water supply domestic vater plugged & aban
			1 2 (R-24-E		+		•		+-		•			-		•					ohut in well

Albert Tolland

1. 2. 181 . 1 .

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CL1-12A (REV. 1964)

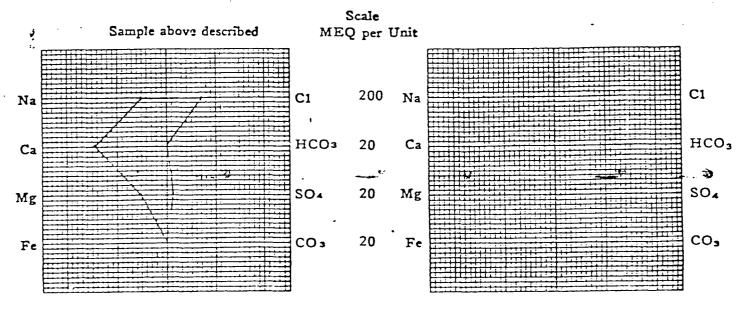
CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR	Phillips Petr		DATE	<u>5-27-83</u>	LAB NO_	<u> W30480</u>
WELL NO_	Rutherford Un	<u>it</u>	LOCATION			
FIELD			FORMATION	· · · · · · · · · · · · · · · · · · ·		
COUNTY	San Juan		INTERVAL			
STATE	Utah		SAMPLE FROM			
1						
REMARKS &	CONCLUSIONS:	Specific gravity				
		Oil and grease, I				
		Aluminum (Al), mg				
		<pre>Iron (Fe), mg/l</pre>				
		Total Sulfides, n	ng/1		ND(0.1)	
Cations Sodium Potassium - Lithium Calcium Magnesium - Iron		1068.99 6 10.14 2 298.50 9 116.64	Bicarbonate Hydroxide Hydrogen sulfide		190	24.75 1466.40 0.00 3.12
	Total Cations -	1494.27	2	Total Anions		1494.27
NaC1 equivale	i solids, mg/1	85655 86344 7.4	Specific resistance Observed Calculate		0.095	ohm-meters

WATER ANALYSIS PATTERN



CL1-12A (REV. 1964) .

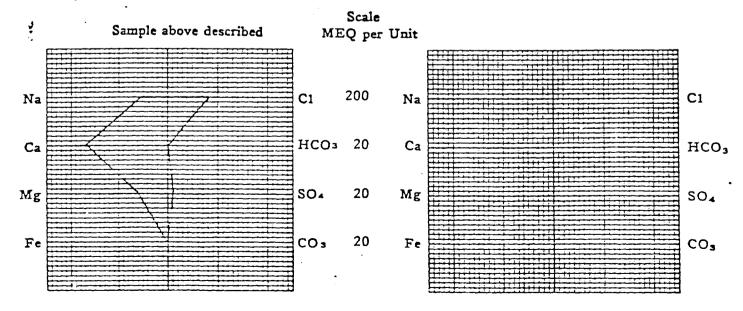
CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR Phillips Petroleum Company WELL NO Ratherford Unit FIELD COUNTY San Juan STATE Utah REMARKS & CONCLUSIONS:	LOCATION FORMATION INTERVAL SAMPLE FROM Bat (7- S/N		
Cations mg/1 meq/1 Sodium 30147 1311 Potassium 429 10 Lithium - - Calcium 6865 342 Magnesium 1738 124 Iron - - Total Cations 1807	Carbonate	mg/1 1380 63000 0 151	meq/1 28.70 1776.60 0.00 2.48 1807.78
Total dissolved solids, mg/1	Specific resistance @ 68 Observed -	0.087 0.078	ohm-meters

WATER ANALYSIS PATTERN



CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Phillips	Well No. Pather And Unit 12W40
County: Gan Juan T4/5 R 23	
New Well Conversion Disposal W	•
	YES NO
UIC Forms Completed	
Plat including Surface Owners. Land wells of available record	esseholders,
Schematic Diagram	
Fracture Information	
· Pressure and Rate Control	
Adequate Geologic Information	
Fluid Source	Desert creek
Analysis of Injection Fluid	Yes TDS 85655
Analysis of Water in Formation to be injected into	Yes TOS 103627
" Known USDW in area	Magele Depth 1550
Number of wells in area of review	ew 80 Prod. 4 P&A 0
	Water / Inj. 3
Aquifer Exemption	Yes NA
: Mechanical Integrity Test	Yes No
Comments: Toe Gurface	DateType
Reviewed by:	·
	

RICHMANDEY I CELL!	UNITED STATES	SUBSCIT IN TRIPLICATES	Expires August Lines seemayage	31. 1985
	LAND MANAGEMENT	g to the state of	14-20-603-	246
SUNDRY NOT	ICES AND REPORTS O	N WELLS	6. W HOUS, MISTER	CO TODO PAR
the not use this form for proper the "APPLIC	who to drill or to despite or play be ATION FOR PERMIT—" for seed pre-	S D G GGreet rearrest.	Navajo	
•и П •и П	Water Indeation Unit	REULIVE	T. THIT ACCRESSES DA	36
TELL U TELL U OTESE	Water Injection Well	-JUN 1 0 1985	SW-I-4192	18
Phillips Oil Company		"JON TO 1969	Ratherford 1	Unit
P.O. Box 2920, Casper,	WY 82602	DIVISION OF OIL	1 2W44	
i. Location of wall (Report location of See also space 17 brieff.)	dearly and in accordance with any Sc	to to topic to a self-like the	16. PIOLO LEO POOL, O	WILDCAT
At surface			Greater Ane	
(001 max ((01 mmx	(anan)		11. 00c, 9, 8, 8, 00 0	LE. AND
600' FSL, 660' FEL	, (SESE)		Sec. 12-T4	1S-R23E
14. PREMIT NO.	18. BLEVATIONS (Show whether SF, B	17. 64. 644.)	12. COUPET OF PARISE	18. STATS Utah
43-037-16405	4710' RKB		San Juan	l ocan
16. Check A	ppropriate Box To Indicate Na	ture of Notice, Report, or C	other Data	
NOTICE OF INTE	1310M 40:	Bpeacus 	ent entore es:	
TEST WATER SECT-077	PCLL OR ALTER CABINO	WATER BEST-OFF	Bepately w	
PRACTURE TERAT	ANTILLE COMBINES	PRACTURE TREATMENT	ALTERING CA	
REPAIR WELL	CHANGE PLANE	(Other)		
(Other) Plug back to Z	one I	(Nors : Report results Completion or Recompl	of multiple completion of the Report and Log for	w Well
	sed to convert Ratherfor plugging back to Zone I ned to injection.			
		AFFECT!	r e g	
			H D. HOION C	ri"
		OIL, GA	S, AND MININ	
			6/12/85	Tribus Paristo
		BY:	The state of the s	
Upon completion of the 5-BLM, Farmington, NM 2-Utah O&G CC, Salt L 1-P. J. Adamson 1-B. Conner, 318B-TRW 1-J. R. Weichbrodt 1-C. M. Anderson 1-File RC		ed on location in a ll be dried and recov	previously dist	urbed area.
18. I bereby certify that the forefoling		A M	•	4 1005
A. F. Stuart		Area Manager	DATE June	4, 1985
(This space for Pederal or State of	ice use)	-		
APPROVED BY CONDITIONS OF APPROVAL, IF	ANT:		DATE	

UTAH DIVISION OF OIL, GAS AND MINING CASING-BRADENHEAD TEST

OPERATOR: Phil	lips Po	etroleum	Con	pany		
				•	atherford Unit	
WELL # 12 W	144	·		_SEC12	TOWNSHIP 415 RANGE	23E
STATE FED FI	EE DEPI	н <u> 560</u>	6_TYP	e well <u>t</u> nj	MAX. INJ. PRESS	S
TEST DATE 6)				
CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
SURFACE	85/8	1255	80		SI	-
INTERMEDIATE	NONE					
PRODUCTION	51/2					
TUBING	2 Baker 7	5436 Tension Pl	 kr at	543 6'		
CASING STRING SURFACE			CMT	PRESSURE READINGS	REMARKS	FUTURE
INTERMEDIATE PRODUCTION						
TUBING						
CASING STRING	SIZE	SET AT	CMI	PRESSURE READINGS	REMARKS	FUTURE
SURFACE						
INTERMEDIATE						
PRODUCTION						
TUBING						

Form 3160-5 (November 1983) (Formerly 9-331)	UNITED STATES PARTME')F THE INTE BUREAU OF LAND MANAGEME	. –	Budget Bureau No. 1004-0135 Expires August 31, 1985 6. LEASE SESIENATION AND SERIAL DO. 14-20-603-246-A				
SUNDRY (Do not use this form the	NOTICES AND REPORTS for proposals to drill or to deepen or pit "APPLICATION FOR PERMIT—" for an	ON WELLS	O. IF INDIAN, ALLOTTES OR TRIBE NAME Navajo				
OIL CAS WELL .	orana Water Injector)) 2/2	SW-I-4192				
Phillips Petroles 3. ADDRESS OF OPERATOR	ım Company	DEC 08 1980	Ratherford Unit				
4. LOCATION OF WELL (Report See also space 17 below.) At surface	Casper, Wyoming 82602 location clearly and in accordance with a 660' FEL, SE SE	OIL. GAS & MINIMO	12W44 10. FIRES AND POOL, OR WILDCAY Greater Aneth 11. SEC., E., E., M., OR MAE. AND SURVEY OR AREA				
API #43-037-16405 14. PERMIT NO.	15. SEEVATIONS (Show whether	r DF, ET, CR, etc.)	Sec. 12-T41S-R23E 12. COURTY OF PARISH 12. STATE San Juan Utah				
16. Q		Nature of Notice, Report, or Ot					
MI&RU 8/2/86 to squaretrieve fish. Pus 5085'. Prepare to gallons 28% HCL act 2875'. Squeezed ca 2939 to 3185' (sand Spotted acid across WOC. Drilled cmt is	August 4, 1986 through Zone II. COOH w/tbg. Shed fish to TD. Top fished across casing leak. Set asing leak (5075'-5085') if from BP). Tested squee casing leak. Pumped 20 from 2890'-3155'. Tested apped at 4035'. Possible	Completion or Recomplet neut details, and give pertinent dates, is contions and measured and true vertical	f multiple completion on Wall thon Report and Log form.) meluding estimated date of starting any depths for all markers and some perting & packer. Unable to sing leak at 5075'- on top. Spot 75 leak. Set packer at DC. Drilled cmt packer at 3050'. across casing leak. ieved bridge plug. id and milled				
		4-BLM, Farmington, NM 2-Utah O&G CC, SLC, UT 1-M. Williams, B'Ville 1-J. Landrum, Denver 1-J. Reno, Cortez	1-Chieftain 1-Mobil Oil 1-Texaco, Inc. 1-Chevron USA 1-File RC				
18. I hereby certify that the for	feller 60 TITLE	Area Manager	December 4, 1986				
(This space for Federal er APPROVED BY CONDITIONS OF APPROV	TITLE		DATE				

	omerly 9-331) DEPARTM	MENT OF THE INTERI U LAND MANAGEMENT		5. LEASE DESIGNATION	AND SERIAL NO.
	BUREAL			14-20-603-2 6. IF INDIAN, ALLOTTE	
	SUNDRY NOTION (I) o not use this form for proposition "APPLICA"	CES AND REPORTS C ais to drill or to deepen or plug b TION FOR PERMIT—" for such pi		Navajo	,
1.				7. UNIT AGBBRANT NA	MB
	OIL GAR OTHER	Water Injection Well	1	SW-I-4192	
Ž.	NAME OF OPERATOR			S. PARM OR LEASE MAN	18
	Phillips Petroleum Comp	pany		Ratherford	Unit
3.	ADDRESS OF OPERATOR			9. WELL NO.	
	P.O. Box 2920, Casper,	WY 82602		12W44	
4.	LOCATION OF WELL (Report location cle See also space 17 below.)	early and in accordance with any	State requirements.*	10. PIBLD AND POOL, OF	WILDCAT
	At surface			Greater And	th
				11. SBC., T., R., M., OR B SURVEY OR ARMA	LE. AND
	660' FSL & 660' FEL (SE	E SE)			
				Sec. 12-T41	
14.	PERMIT NO.	15. BLEVATIONS (Show whether DF	, RT, GR, etc.)	12. COUNTY OR PARISE	18. STATE
	43-037-16405	4710' RKB		San Juan	Utah
16.	Check Apr	propriate Box To Indicate N	lature of Notice, Report, or O	ther Data	
	NOTICE OF INTENT		• • •	BUT REPORT OF:	
	<u> </u>			7	<u> </u>
		TLL OR ALTER CASING	WATER SHUT-OFF	EBPAIRING W	j
	 !	IULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CA	1
	<u> </u>	BANDON*	SHOOTING OR ACIDIZING	ABANDONMEN	TT*
	<u></u>	HANGE PLANS	(Other)	of multiple completion of the	on Well
17	Other) Repair collapsed DESCRIBE PROPOSED OR COMPLETED OPER Proposed work. If well is direction	1 casing			
	The subject well has corepair this collapsed of this well is dependent. The conversions in this A sundry notice will be intention of remedial w	casing and operations upon the success of a area of the unit are submitted to your o	s were shut down on 9, future conversions in re scheduled to be com	/2/86. Further n this area of npleted by Apri	work on the unit. 1 30, 1987.
	1-File RC OF	ROVED BY THE ST UTAH DIVISION (., GAS, AND MININ	OF STATE OF		
18.	I hereby certify that the foresting is SIGNED C. Gill (This space for Federal or State office	TITLE A	cea Manager	DATE Decemb	er 29, 1986
	APPROVED BY	TITLE		DATE	

SUNDRY NOTICES AND REPORTS ON WELLS (the sear data form Property Notice of Part of Pa	(November 1983) (Formerly 9-331) DEP	ONITED STA ARTMEPT OF TH		#UBMIT IN TRIPLICA (Other instructions on verse side)	Expires 5. LEASE DES	August 31, 1985
SUNDRY NOTICES AND REPORTS ON WELLS The set was the feet of the feet proposed to the property of the property		. ———				
SUIT OF OFFICE OF PARTY OF THE STATE OF THE					WILL	
NOV 0 9 1987 Account was a proper to personate with a proper to personat	DIL GAB OT	wase Water Injec	tion Well	12		
P.O. Box 2920, Casper, WY 82602 P.O. Box 2920, Casper, WY 82602 Control or You Likeport leatiles clearly and is accordance with any State requirements. 12 MA4 10 Final and Food, on wilder Greater Areth 11 Service And Service Control of Areth Control of Are				NOV 09 198		
P.O. Box 2920, Casper, WY 82602 Increasing of the literation of t		Company	· · · · · · · · · · · · · · · · · · ·	24 (4.1.1.14.6.	9. WELL DO.	Old Ollit
Greater Area 660' FSL and 660' FEL (SE SE) 16. FERRIT PO. 43-037-16405 17. Check Appropriate Box To Indicale Nature of Notice, Report, or Other Data **TEST WATER SECTOR** **PROTECT OF INTERTION TO: **PROTECT OF		sper, WY 82602		Or CAS P. MAIRIE	MG 12W44	
60° FSL and 660° FEL (SE SE) Sec. 12-T41S-R23E 43-037-16405 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data ROTICE OF INTERVIEW TO: THEN WATER BRIT-OFF FRACTURE TREAT ROTO OR ACTURE TREAT ROTO OR ACTU	See also space 17 below.)	etion clearly and in accordi	tuct with any state	e requirements.		· .
Sec. 12-T41S-R23E 43-037-16405 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data Notice of intention to: That water reaction with the control of the control o	660' FSL and 660'	FFI (SF SF)			11. SSC., T., & SCRVST	M., CR BLE. AND
Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data SOURCE OF INTERPRETATION TO: THENT WATER BRECTOTY PRILL OR ALTER CARING PRILL OR ALTER CARING SHOOTING OR ACTIBLE REPORT COLLEGE COMPLETE ABARDON* REPAIR WELL ABARDON* REPAIR COLLEGE COMPLETE ABARDON* REPAIR WELL ABARDON* REPAIR WELL ABARDON* REPAIR COLLEGE COMPLETE ABARDON* REPAIR COLLEGE COMPLETE ABARDON* REPAIR WELL ABARDON* REPAIR WELL ABARDON* REPAIR COLLEGE CARING ANAMADE PLANE (Other) Repair Collapsed Casing X Completion or Recompletion or Multiple completion or Multiple completion or Recompletion or Recompletio	000 FSL and 000	ret (se se)			Sec. 12	-T41S-R23E
Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data **STERS PRICTORS** **PRICTURE TREAT** **PRICTURE		-	•	GR. etc.)		
NOTICE OF INTENTION TO: SOURCE OF INTENTION TO: PRICTURE TREAT SHOOT OR ACTURE TREAT OBJECT OR THE SHOOT OF THE ACTURE TREATMENT ANDONE OR ACTURE TREAT SHOOT OR ACTURE TREAT IT IS PROPOSED OR CONTINUED OF THE SHOOT						n Utah
THEST WATER SECTIONS PRACTURE TREAT SERVOY OR ACTURES SERVOYER TREAT SERVOY OR ACTURES SERVOYER TREATMENT ALTERISE CASING ANDRESS TREATMENT ALTERISE CASING SERVOYER (NOTE TREATMENT ALTERISE TREATMENT ALTERISE ALTERISE SERVOYER TREATMENT ALTERISE ALTERISE SERVOYER TREATMENT ALTERISE SERVOYER TREATMENT ALTERISE SERVOYER TREATMENT ALTERISE SE	Cne		Indicate Natu			
PRACTURE TREAT SHOOT OR ACTURE OR ALMOORE SHOOT OR ACTURE OR ALMOORE SHOOT OR ACTURE OR SHOOT OR ACTURE OR SHOOT OR ACTURE SHOOT OR ACTURE OR SHOOT OR ACTURE SHOOT OR ACTURE OR SHOOT OR ACTURE SHOOT OR ACTURE SHOOT OR ACTURE OR ACTURE OR SHOOT OR ACTURE OR	<u></u>					
REPAIR WELL Other) Repair Collapsed Casing X Others: Report remits of multiple completion on Well Dusy that remote or courters protector (Cleric state all perthent details, and give perthers date. Report remits of multiple completion on the work) proposed work if well is directionally drilled, swe subsurface beations and washingted and true excital depths for all markets and some sent to this work. It is proposed to repair collapsed casing in the subject well at 4037' - 4234'. If successful at repairing the collapsed casing, then the subject well will be converted from a Zone I and II to a Zone I water injection well. After plugging back to Zone I, the well will be acidized with 3000 gallons of 28% HCL and returned to injection. If unsuccessful at repairing the collapsed casing, then the subject well will be plugge and abandoned. 5 - BLM, Farmington, NM 2 - Utah 0&G CC, Salt Lake City, Utah 1 - P. J. Konkel 1 - M. Williams, 302 TRW 1 - J.R. Reno 1 - B.J. Murphy 1 - File RC 8. I bereby certify that the forgoing is true and correct SIGNED D.C. Gill TITLE Area Manager DATE 11-6-87 (This space for Federal or State office use) APPROVED BY APPROVAL, IF ANT: OF UTAH DIVISION OF	 		"G			
Note: Repair Collapsed Casing X Completion or Recompletion of multiple completion or Recompletion Report and General Proposed down in which is directionally drilled. give subsurface locations and give received and give recompletion Report and General Recompletion Recompletion Report and General Recompletion Report and General Recompletion Report and General Recompletion Recompletion Report and General Recompletion Recompletion Report and General Recompletion Recomple	[]	ABANDON®		SECOTING OR ACIDIZING	494	MOON MENT.
This space for Federal or State office use) To be service the recovery of the state of the stat	<u> </u>			(Nors: Report res	ruits of multiple coa	pjetion on Well
If successful at repairing the collapsed casing, then the subject well will be converted from a Zone I and II to a Zone I water injection well. After plugging back to Zone I, the well will be acidized with 3000 gallons of 28% HCL and returned to injection. If unsuccessful at repairing the collapsed casing, then the subject well will be plugge and abandoned. 5 - BLM, Farmington, NM 2 - Utah O&G CC, Salt Lake City, Utah 1 - P.J. Konkel 1 - M. Williams, 302 TRW 1 - J.R. Reno 1 - B.J. Murphy 1 - File RC 8. I hereby certify that the forecology is true and correct SIGNED D.C. Gill TITLE Area Manager OATB 11-6-87 (This space for Federal or State office use) APPROVED BY CONDITIONS OF APPROVAL IF ANT: OF UTAH DIVISION OF	7. DESCRIBE PROPOSED OR COMPLE proposed work. If well is	TED OPERATIONS (Clearly sta	te all pertinent de	tails, and give pertinent de	ates, including estim	ated date of starting any
SIGNED D.C. Gill TITLE Area Manager DATE 11-6-87 (This space for Federal or State office use) APPROVED BY	and abandoned. 5 - BLM, Farmingto 2 - Utah O&G CC, S 1 - P.J. Konkel 1 - M. Williams, 3 1 - J.R. Reno 1 - B.J. Murphy	n, NM alt Lake City, U		sing, then the s	ubject well	will be plugged
(This space for Federal or State office use) APPROVED BY	[[4]		TITLEA	rea Manager	DATE	11-6-87
OF UTAH DIVISION OF			~			
OF UTAH DIVISION OF	APPROVED BY		TITLE	ACCEPTE	D BY THE	STATE
deral approval of this action				OF UTA	H DIVISION	1 OF
required before commencing				OIL, GA	S, AND MIN	IING
erations. *See Instructions on Reverse Stide E:	perations.			BY: John	X . Da	1=

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5 (Nove::er 1983) (Formerly 9-331)	UNITED STA DEPARTMEN _)F TH BUREAU OF LAND MA	IE INTERIOR :	UBMIT IN TRIPLIC TE® Other instructions re erse side)	Expires Augus	No. 1004-0135 t 31, 1985 AND SERIAL NO
(Do not use t	JNDRY NOTICES AND R his form for proposals to drill or to d Use "APPLICATION FOR PERMI			Navajo	
OIL GAS WELL WELL 2. NAME OF OPERATOR	<u> </u>	ction Well		7. UNIT AGREEMENT N SW - I - 4 8. FARM OR LEASE NA	
3. ADDRESS OF OPERA		DE	CENVIEW.	Ratherford 9. WELL NO.	Unit
P. O. BOX 4. LOCATION OF WELL See also space 17 At surface	1150 Cortez CO (Report location clearly and in accordance)	1212	EC 12 1988	12W44 10. FIELD AND POOL, O	_
660° FSL	& 660' FEL (SE SE)		NVISION OF	Sec. 12-T4	1
14. PERMIT NO. 43-037-16		Show whether DF, RT, GR.	- Baiming & Bayy	12. COUNTY OR PARISI	
16.	Check Appropriate Box T	o Indicate Nature	of Notice, Report, or C	Other Data	
	NOTICE OF INTENTION TO:		SUBSEQ	UENT REPORT OF:	
TEST WATER SHU PRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	MULTIPLE COMPLETE ABANDON® CHANGE PLANS		Completion or Recomp	ALTERING O ABANDONME s of multiple completion letion Report and Log for	on Well
proposed work, nent to this wor	D OR COMPLETED OPERATIONS (Clearly st If well is directionally drilled, give k.) *	ate all pertinent details subsurface locations and	s, and give pertinent dates d measured and true vertic	, including estimated da al depths for all marker	te of starting any s and zones perti-
Ratherfor from the squeezed. 4035'. A Subsequen but had i enter the and operafurther a	posed to plug and a d Unit #12W44 began well, a casing leak A subsequent bit ttempts to swedge at evaluation reveal nstead collapsed th well with various tions were suspended ttempts to recomples abandonment procedure.	on August was found and scraper and realign ed that the casing for fishing too ed on Septem	3, 1986. Upon at 3075' - 308 run indicated the parted cas swedge had not or some 198'. I assemblies aber 3, 1986. are futile.	n pulling the street cast and succe in parted cast in proved to the further attalso proved to the street calso proved to the stre	e tubing essfully ing at unsuccessful. e casing, tempts to unsuccessful, int that
2-Utah O	rmington, NM & G CC, Salt Lake C Konkel, Casper	City, UT	Accepted	by the State	•
1-M. Will	iams, 302 TRW			and Mining	
1-M. L. M 1-M. L. P	•			ember 15, 198	88
	Office - RC			Record Purpo	
18. I hereby certify the	hat the foregoing is true, and correct				
	Menghin Menghin ederal or State office use)	TITLE CORTEZ D	istrict Superint	enden harm De c	ember 5, 1988
APPROVED BY _	APPROVAL, IF ANY:	TITLE	· · · · · · · · · · · · · · · · · · ·	DATE	
Federal App Action is Ne	oroval of this ecessary				

Ratherford Unit Well #12W44

PBTD: 5606', parted at 4037'

MTD: 5624'

Elevation: 4710' RKB

Production Casing: 5-1/2", 17#, set at 5614' Surface Casing: 8-5/8", 32#, set at 1255'

Est. TOC: 3920'

Perfs: Zone I -- 5449'-5453', 5468'-5478', 5495'-5500', 5529'-5532'
Zone II -- 5543'-5551', 5558'-5570', 5578'-5586', 5590'-5598'

- 1. Test anchors, MI, RU WSU. Hold and record safety meeting.
- 2. Bleed off pressure, test for H2S. ND WH & NU 3000# BOP.
- 3. RIH w/bit and scraper to 4000', circulate until returns clean up.
- 4. POOH. RIH w/cement retainer, set at 4000'.
- 5. Test retainer, sting out to ensure that setting tool will release.
- 6. MI, RU cementers. Hold safety meeting. Test surface lines to 3500 psi
- 7. Sting into retainer, establish water injection rate and pressure down tubing. Pressure annulus to 500 psi and maintain throughout job.
- 3. Mix and pump 300 sx Class "B" cement (yield 1.18 ft3/sk).
- 9. Displace cement with 22 bbl, 9.6 ppg mud. Raise tubing 3 jts. to close retainer. Spot remaining cement on retainer. Raise tubing 5 stands.
- 10. Reverse circulate w/120 bbl., 9.6 ppg mud to fill hole with mud.
- 11. WOC 4 hours, RIH to tag top of cement @ 3800'. POOH.
- 12. RIH w/tubing open-ended to top of cement. Mix and pump 50 sx Class "B" cement, displaced w/19 bbl., 9.6 ppg mud to spot balanced plug from 3800', to 3370'. POOH w/tubing 12 stands, reverse circulate 40 bbl. w/9.6 ppg mud.
- 13. RIH w/tubing to tag Hermosa plug at approximately 3370'. POOH.
- 14. MI & RU wireline perforators. Install lubricator, GIH w/l each l'long, 4" diameter HSC gun, w/5 each 19 gm charges per foot.
- 15. Fire gun at 1300', 45' below casing shoe. POOH and RD perforators.
- 16. Establish circulation down 5-1/2" and up 8-5/8" casing with 9.6 ppg mud until returns clean up.
- 17. Mix and pump 365 sx Class "B" cement to create a balanced plug in 5-1/2" casing and 5-1/2" 8-5/8" annulus from 1300' to surface.
- 18. Weld 3/8" thick steel plate on 8-5/8" casing. Install a permanent monument in the wellbore as per BLM and Utah specifications and restore location.

Form 3160-5 (November 1983) (Formerly 9-331)	UNITED STATES DEPARTME*** OF THE IN BUREAU CAND MANAG	NTERIOR (Other Instructions on re-	Expires August 31, 1985 5. LEASE DESIGNATION AND SERLAL NO.
	RY NOTICES AND REPO of proposals to drill or to deepes of "APPLICATION FOR PERMIT—" to	RTS ON WELLS	SW-I-4192
T.			T. UNIT AGREEMENT HAME
OIL GAB	OTHER WATER INJECTION	N & WATER SUPPLY WELLS	RATHERFORD UNIT #7960041920
2. NAME OF OPERATOR		The state of the s	8. PARM OR LEASE HAME
PHILLIPS PETROL	EUM COMPANY		•
3. ADDRESS OF OPERATOR			9. WELL DO.
152 N. DURBIN.	2ND FLOOR, CASPER, WYON	MING=8260113777777777	VARIOUS (see attached)
4. LOCATION OF WELL (Repo	rt location clearly and in accordance		10. FIBLD AND POOL, OR WILDCAT
See also space 17 below.) At surface			GREATER ANETH
SEE AT	TACHED	0.000	11. SBC., 2., S., M., OR BLE, AND
323		MAR 20 1989	SURVEY OR ARMA
	•		Sections 1 thru 30
14. PERMIT NO.	18 BLEVATIONS (Show w	hether DF, RT, DR, etc.)	T41S - R23E & 24E 12. COUPTY OR PARISH 13. STATE
14. 732-11 -0.		OIL, GAS & MANNO	San Juan Utah
			Sair Sdair Utair
16.	Check Appropriate Box To Ind	icate Nature of Notice, Report, or C	Other Data
Nort	ICE OF INTENTION TO:	Deserts	TENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF]
	NULTIPLE COMPLETE	_	REPAIRING WELL
PRACTURE TREAT		- FRACTURE TREATMENT	ALTERING CABING
SHOOT OR ACIDIZE	ABANDON*	Other) CHANGE OF O	MNED CHID
REPAIR WELL	CHANGE PLANS		of multiple completion on Well
the R	Ratherford Unit, listed	Injection and Water Suppl on the attached sheet, we ny, effective August 1, 19	re sold
	mer Operator - Phillips		
·			·
			BLM, Farmington, NM
		استے 2 1 – 1	Jeah O&G CC, SLC, UT File
18. I hereby certify that the	foregoing is true and correct		
SIGNED S. H. Ode		<u>B</u> District Superintendent	DATE March 17, 1989
(This space for Federal	or State office use)		
APPROVED BY	DVAL, IF ANY:	B	DATE

DOWNHOLE SCHEMATIC

Date: 8/6/87

RATHERFORD Unit # 12W44 4710' RKB Elev. 4699 GL ELEU. // ' RKB Above GL'

Location SE SE sec. 12 T415-R23E Well DRId 9/4/56 Well Converted 5/8/65 to injector 5/8/65

CONDUCTOR CSG

Surface CSG.

85/8° @ 1,255

TOC _ 3911 'CALC

Tubing 2 @ 5603' MARKY LINED

PALKER BAKER LOK-SET @ 5603'

5558 - 5570 PERFS 5,449 - 53 5,468 - 78 - 5500

PBTO 5.603 1

5/2 6 5614 J-55, 17# PRODUCTION Csg.

All Perfs Zone I unless NoteD

NOTICE OF INTENTION TO: TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF REPORT OF: WATER SHU	-0135 L #0.
### OF OFFILE OF STATES Phillips Petroleum Company #### OF OFFILE OF STATES Phillips Petroleum Company #### OF OFFILE OF STATES P. O. Box 1150, Cortez, CO 81321 #### OF STATES P. O. Box 1150, Cortez, CO 81321 ##### OF STATES P. O. Box 1150, Cortez, CO 81321 ##################################	MANE
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P. O. Box 1150, Cortez, CO 81321 Box 100 to vitt (Report location dearly and in accordance with any State (requirements) Box 100 to vitt (Report location dearly and in accordance with any State (requirements) At surface 660' FSL & 660' FEL, SE SE 16. FERRIT PO. API #43-037-16405 18. Survations (Show whether PP. N. et. etc.) API #43-037-16405 19. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data Revice or interpretate to: That water brown by Price of interpretate to appropriate Box To Indicate Nature of Notice, Report, or Other Data Revice or interpretate to a later Casing Practicus trains AND Well appropriate Box To Indicate Nature of Notice, Report, or Other Data Revice or interpretate to a later Casing Practicus trains AND Well appropriate Box To Indicate Nature of Notice, Report, or Other Data Revice or interpretate trains AND Well appropriate Box To Indicate Nature of Notice, Report, or Other Data Revice or interpretate trains Sociolary appropriate Well (Other) The successite proposed on countries of indicate Nature of Notice, Report results of multiple completion on Well (Other) The successite proposed well. If well is directionally drilled, give subscurface beautions and measured and true vertical depths for all markers and once AND Well service unit 1/16/90. ND wellhead, NU BOPs. CIH w/bit, scraper, and 129 jts tbg to 4013'. Circ well clean. Could not establish inj rate. COOH w/bg, bit, and scraper. CIH w/129 jts 2-7/8" tbg open ended to 4007'. Mixed and pumped 275 sx Class G neat cmt plug from 4007' to 1537'. COOH w/40 stds tbg. Reverse out 1 bbl slurry. Pulled remaining tbg and dug out cellar. TIH w/tbg open ended and tagged cmt at 1527'. Perforated 1512-1513' with five 19 gram chgs in 4" HSC gun. Est circ and pmpd 410 sx Class G neat cmt plug, 15.8 ppg, down 5-1/2" and up 8-5/8" csg to surface. RD & MO well service unit. Installed permanent dry hole marker and restored surface location except for seeding. Well plugged and abandoned 1/18/90.	
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OIL Mass Cond	i
Distribution: 5 - BLM, Farmington 1 - Chieftain 2 - Utah O&GCC 1 - Mobil Oil 1 - N. Anstine 1 - Texaco, I 1 - V. S. Shaw 1 - Chevron, SABGH 1 - S. H. Oden 1 - Cortez Off ic COMRUTER 1 - E. D. Hasely 1 - Houston Off imacrofilm 1 - P. J. Konkel 18. I bereby certify that the foregoing in true and correct SIGNED TITLE Distribution DPN RUE JRB J-GLHV JRB J-GLHV DIS SLS DIS SLS TITLE Distribution: DRN RUE JRB J-GLHV JRB J-GLHV DIS SLS DIS SLS MICROFILM 1/29/90	
S. H. Oden (This space for Federal or State office use)	

TITLE _

APPROVED BY CONDITIONS OF APPROVAL, IF ANT:

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

AUG 1 6 1993

NO772

P J KONKEL
PHILLIPS PETROLEUM COMPANY
5525 HWY 64 NBU 3004
FARMINGTON NM 87401 (

REPORT PERIOD (MONTH/YEAR)

6 / 93

DIVISION OF

OIL, GAS & MININGMENDED REPORT [(Highlight Changes)

Well Name	Producing	Well	Days		Production Volumes	
API Number Entity Location	Zone	Status	Oper	OIL(BBL)	GAS(MCF)	WATER(BBL)
#21-23 4303713754 06280 415 24E 21	DSCR	POW	29	1374	883	58
#3-44 4303715031 06280 415 24E 3	DSCR	POW	30	111	94	2905
#3-14 4303715124 06280 415 24E 3	DSCR	POW	30	67	23	302
#9-12 4303715126 06280 415 24E 9	DSCR	POW	30	112	654	17363
#9-14 4303715127 06280 41S 24E 9	DSCR	POW	30	201	315	423
#28-12 4303715336 06280 415 24E 28	PRDX	POW	29	112	<i>4</i> 7	2428
#29-12 4303715337 06280 41S 24E 29	PRDX	POW	29	56	0	672
#29-32 4303715339 06280 41S 24E 29	DSCR	POW	29	1402	287	2224
#29-34 4303715340 06280 415 24E 29	DSCR	Pow	29	75 7	48	0
#30-32 4303715342 06280 41S 24E 30	DSCR	POW	29	588	1049	3744
#3-12 4303715620 06280 418 24E 3	DSCR	POW	30	268	11	363
#9-34 4303715711 06280 41S 24E 9	DSCR	POW	30	45	46	9800
#10-12 4303715712 06280 415 24E 10	DSCR	POW	30	45	23	1088
15ch			TOTALS	5138	3480	41370

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the

Ratherford Unit to Mobil Exploration and Producing U.S., Incorporated, P. O. Box

633, Midland, Texas 79702. Mobil assumed operations on July 1, 1993.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 8/11/93

Name and Signature: PAT KONKEL

Out Konkel

Telephone Number: <u>505</u> <u>599-3452</u>

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STATE OF UTAH /ISION OF OIL, GAS AND MINING

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I hereby ce	rufy that this	report is true	and complete to	o the best of m	y knowledge.		Date:	7/0 / 1 - 30=	3. 55 572.17
Name and	Signature: 🚤	trwell	· D M	ggul.	y	<u> </u>	Telephone	Number 24	658 2528

(6/93)

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

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			14-20-603-246A	SEC. 12, T41S, R23E	SE/SE 660 FSL; 660 FEL -
		43-037-31543			SE/SE 807 FEL; 772 FSL
		43-037-31152		SEC. 13, T41S, R23E	NW/NW 500 FNL; 660 FWL
		43-037-31127	14-20-603-247A	SEC. 13, T41S, R23E	SW/NW 1705 FNL; 640 FWL
d	13W-13	43-037-15851	14-20-603-247A	SEC. 13, T41S, R23E	NW/SW 1980 FSL; 4620 FEL
		43-037-31589	14-20-603-247A	SEC. 13, T41S, R23E	660 FSL; 660 FWL
d	13-21	43-037-31128	14-20-603-247A	SEC. 13, T41S, R23E	NE/NW 660 FNL; 1920 FWL
J	13W-22	43-037-15852			SE/NW 1988 FNL; 3300 FEL
ď	13-23	43-037-31129	14-20-603-247A		NE/SW 1980 FSL; 1930 FWL
Į	13W-44	43-037-15853	14-20-603-247	SEC. 13, T415, R23E-	600 FSL; 3300 FEL
4	13W-32	43-037-16406	14-20-603-247A	SEC. 13, T41S, R23E	
		43-037-15855			NW/SE 1970 FSL; 1979 FEL
					SW/SE 660 FSL; 1980 FEL
4		43-037-15856			NE/NE 660 FNL; 660 FEL
		43-037-15857		SEC. 13, T41S, R23E	
		43-037-31131			NE/SE 1700 FSL; 960 FEL
٠,		43-037-16407			SE/SE 635 FSL; 659 FEL
	14.03	NA.	14 20 603 4037		SW/SW 660 FSL; 660 FEL
		43-037-15858		SEC. 14, T41S, R23E	
		43-037-31623			NE/NE 521 FEL; 810 FNL
		43-037-15860	14-20-603-247A		SE/NE 1976 FNL; 653 FEL
1	ZAWA 73	43-037-16410	14-20-603-247A	SEC. 14, T415, R23E	
	7	43-037-15859	14-20-603-247	SEC. 14, T415, R23E	
	15-12	43-037-15715	14-20-603-247	SEC. 15, T41S, R24E	
		43-037-16411	14-20-603-355	SEC. 15, T415, R24E	
		43-037-30449	14-20-603-355		
			14-20-603-355A	SEC. 15, T415, R24E	SE/NW, 1980 FNL; 2050 FWL
		43-037-15718			
			14-20-603-355		NW/SE 1650 FSL; 1980 FEL
		43-037-15719 43-037-3044\$	14-20-603-355	SEC. 15, T41S, R24E	
	15-42	43-037-3044#	14-20-603-355		SE/NE 2020 FNL; 820 FEL
		43-037-15720	14-20-603-355		SW/NW 1880 FNL; 660 FWL
		43-037-31168	14-20-603-355	SEC. 16, T41S, R24E	
		43-037-15721	14-20-603-355		SW/SW 660 FSL; 660 FWL
		43-037-16414	14-20-603-355		NE/NW 660 FNL; 1880 FWL
ч	16W-23	43-037-15722	14-20-603-355		NE/SW 1980 FSL; 1980 FWL
		43-037-15723	14-20-603-355	SEC. 16, T41S, R24E	
		43-037-15724	14-20-603-355	SEC. 16, T41S, R24E	
		43-037-15725	14-20-603-355	SEC. 16, T41S, R24E	
		43-037-16415	14-20-603-355		NE/SE 2140 FSL; 820 FEL
		43-037-31169	14-20-603-353		NW/NW 1075' FNL; 800' FWL
4	17W-12%	43-037-15726	14-20-603-353		SW/NW 1980' FNL; 510' FWL
		43-037-31133	14-20-603-353		NW/SW 2100' FSL; 660' FWL
		43-037-15727	14-20-603-353		SW/SW 660' FSL; 660' FWL
		43-037-16416	14-20-603-353	SEC. 17, T41S, R24E	
V			14-20-603-353	SEC. 17, T41S, R24E	
		43-037-15728	14-20-603-353	SEC. 17, T41S, R24E	NE/SW 1980' FWL; 1880' FSL
		43-037-31178	14-20-603-353	SEC. 17, T41S, R24E	NW/NE 500' FNL; 1980' FEL
4	17:32 W	43-037-15729	14-20-603-353	SEC. 17, T41S, R24E	SW/NE 1830' FNL; 2030' FEL
	17-33	43-037-31134	14-20-603-353	SEC. 17, T41S, R24E	NW/SE 1980' FSL; 1845' FEL
4	17-34W	43-037-15730	14-20-603-353	SEC. 17, T41S, R24E	SW/SE 560' FSL; 1880' FEL
	17W-41	43-037-15731	14-20-603-353	SEC. 17, T41S, R24E	610' FNL; 510' FEL
	17-42	43-037-31177	14-20-603-353	SEC. 17, T41S, R24E	SE/NE 1980; FNL, 660' FEL
	17-44	43-037-/5732	14-20-603-353	SEC. 17, T41S, R24E	660 FSL; 660' FEL
Ų	17W-43	43-037-16417	14-20-603-353	SEC. 17, T41S, R24E	NE/SE 1980' FSL; 660' FEL
	18-11	43-037-15733	14-20-603-353	SEC. 18, T41S, R24E	NW/NW 720' FNL; 730' FWL
Ų	18-12W	43-037-31153	14-20-603-353	SEC. 18, T41S, R24E	SW/NW 1980' FNL; 560' FWL
4	18W-21	43-037-16418	14-20-603-353	SEC. 18, T41S, R24E	NE/NW 660' FNL; 1882' FWL
ų	18-22	43-037-31236	14-20-603-353	SEC. 18, T41S, R24E	SW/NW 2200' FNL; 2210' FWL
ી	18W-23	43-037-30244	14-20-603-353	SEC. 18, T41S, R24E	NE/SW 2385' FSL; 2040' FWL
J	18W-14 🤋	43-037-15735	14-20-603-353	SEC. 18, T41S, R24E	SW/SW 810' FSL; 600' FWL
J	18-24	43-037-31079	14-20-603-353	SEC. 18, T41S, R24E	SE/SW 760' FSL; 1980' FWL
	18-31	43-037-31181	14-20-603-353	SEC. 18, T41S, R24E	NW/NE 795' FNL; 2090; FEL
	18W-32	43-037-15736	14-20-003-353		SW/NE 2140' FNL; 1830' FEL.
	18-33	43-037-31135	14-20-603-353	SEC. 18, T41S, R24E	NW/SE 1870' FSL; 1980' FEL
	18-34W	43-037-15737	14-20-603-353	SEC. 18, T41S, R24E	SW/SE 780' FSL; 1860 FEL
	18W-41	43-037-15738	14-20-603-353	SEC. 18, T41S, R24E	NE/NE 660' FNL; 660' FEL
	18-42	43-037-31182	14-20-603-353	SEC. 18, T41S, R24E	SE/NE 2120' FNL; 745' FEL
	18W-43	43-037-16419	14-20-603-353	SEC. 18, T41S, R24E	NE/SE 1980' FSL; 660' FEL
	18-44	43-037-31045	14-20-603-353	SEC. 18, T41S, R24E	SE/SE 660' FSL; 660' FEL
	19-11	43-037-31080	14-20-603-353	SEC. 19, T41S, R24E	NW/NW 660' FNL; 660' FWL
	19-12	43-037-15739	14-20-603-353	SEC. 19, T41S, R24E	600' FWL; 1980' FNL
	19-14	43-037-15740	14-20-603-353	SEC. 19, T41S, R24E	600' FSL; 660' FEL
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-PAId

Sept 29, 1993

To: Lisha Cordova-Utah Mining Oil & Gasley BLM Farmington, NM 505 599-6355

Here is copy of Ratherford Unit Successor aprator.

4 pages including this one.

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PICEIVED BLM

Navajo Area Office P. O. Box 1060 Gallup, New Mexico 87305-1060

070 FALLMELON, NM

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Mr. G. D. Cox Mobil Exploration and Producing North America, Inc. P. O. Box 633 Midland, Texas 79702

Dear Mr. Cox:

Enclosed for your information and use is the approved Designation of Operator between the Phillips Petroleum Company and Mobil Exploration and Producing North America, Inc. for the Ratherford Unit.

Please note that all other concerned parties will be furnished their copy of the approved document.

Sincerely,

Aligo Demore

ACTING Area Director

Enclosure

cc: Bureau of Land Management, Farmington District Office w/enc. TNN, Director, Minerals Department w/enc.

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF INDIAN AFFAIRS**

DESIGNATION OF OPERATOR

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Ratherford Unit,

AREA OFFICE: Window Rock, Arizona LEASE NO: Attached hereto as Exhibit "A" 070 FARVINGTON, NM

and, pursuant to the terms of the Ratherford Unit Agreement, is resigning as Unit Operator effective July 1, 1993. and hereby designates

NAME: Mobil Exploration and Producing North America Inc., duly elected pursuant to the terms of the Ratherford Unit Agreement,

ADDRESS: P. O. Box 633, Midland, Texas 79702

Attn: G. D. Cox

as Operator and local agent, with full authority to act on behalf of the Ratherford Unit lessees in complying with the terms of all leases and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160 and 25 CFR 211 and 212) with respect to (described acreage to which this designation is applicable):

Attached hereto as Exhibit "A"

Bond coverage under 25 CFR 211, 212 or 225 for lease activities conducted by the above named designated operator is under Bond Number <u>05202782</u> (attach copy). Evidence of bonding is required prior to the commencement of operations.

It is understood that this designation of operator does not relieve any lessee of responsibility for compliance with the terms of the leases and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the leases.

In case of default on the part of the designated operator, the lessees will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

Attached is the appropriate documentation relevant to this document.

The designated operator agrees to promptly notify the authorized officer of any change in the operatorship of said Ratherford Unit.

June 17, 1993

Phillips Petroleum Company

Attorney-in-Fact

Mobil Exploration and Producing

North America Inc.

June // , 1993

AREA DIRECTOR

APPROVED BY

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.

This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

EXHIBIT "A"

ATTACHED TO AND MADE A PART OF DESIGNATION OF SUCCESSOR OPERATOR, RATHERFORD UNIT

EXHIBIT "C"

Revised as of September 29, 1992) SCHEDULE OF TRACT PERCENTAGE PARTICIPATION

Tract Number	Description of Land	Serial Number and Effective Date of Lease	Tract Percentage Participation
1	S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11, and all of Sec. 12, T-41-S, R-23-E, S.L.H. San Juan County, Utah	14-20-603-246-A Oct. 5, 1953	11.0652565
2	SE/4 and W/2 SW/4 Sec. 5, the irregular SW/4 Sec. 6, and all of Sec. 7 and 8, T-41-S, R-24-E, San Juan County, Utah	14-20-603-368 Oct. 26, 1953	14.4159942
3	SW/4 of Sec. 4, T-41-S, R-24-E, San Juan County, Utah	14-20-603-5446 Sept. 1, 1959	.5763826
4	SE/4 Sec. 4, and NE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4035 Harch 3, 1958	1.2587779
5	SW/4 of Sec. J, T-41-S, R-24-E, S.L.H., San Juan County, Utah	14-20-603-5445 Sept. 3, 1959	. 4667669
6	NW/4 of Sec. 9, T-41-S, R-24-E, S.L.H., San Juan County, Utah	14-20-603-5045 Feb. 4, 1959	1.0187043
7	NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4 Sec. 9, T-41-5, R-24-E, San Juan County, Utah	14-20-603-4043 Feb. 18, 1958	3.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.M. San Juan County, Utah	14-20-603-5046 Feb. 4, 1959	1.1141679
9	SE/4 Sec. 10 and S/2 SW/4 Sec. 11 T-41-S, R-24-E, San Juan County, Utah	14-20-603-4037 Feb. 14, 1958	2.6186804
10	All of Sec. 13, E/2 Sec. 14, and E/2 SE/4 and N/2 Sec. 24, T-41-S, R-23-E, S.L.H., San Juan County, Utah	14-20-603-247-A Oct. 5, 1953	10.3108861
11	Sections 17, 18, 19 and 20, T-41-S, R-24-E, San Juan County Utah	14-20-603-353 Oct. 27, 1953	27.3389265
12	Sections 15, 16, 21, and NW/4, and W/2 SW/4 Sec. 22, T-41-5, R-24-E, San Juan County, Utah	14-20-603-355 Oct. 27, 1953	14.2819339
13	W/2 Section 14, T-41-S, R-24-E, San Juan County, Utah	14-20-603-370 Oct. 26,1953	1.8500847
14	N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and E/2 SE/4 and E/2 W/2 irregular Sec. 30, and E/2 NE/4 Sec. 32, T-41-S, R-24-E, San Juan County, Utah	14-20-603-407 Dec. 10, 1953	6.9924969
15	NW/4 Sec. 28, T-41-S, R24-E San Juan County, Utah	14-20-603-409 Dec. 10, 1953	.9416393
16	SE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6504 July 11, 1961	. 5750254
17	NE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6505 July 11, 1961	. 5449292
18	NW/4 Sec. 3, T-41-5, R-24-E San Juan County, Utah	14-20-0603-6506 July 11, 1961	. \$482788
19	NE/4 Sec. 4, T-41-S, R24-E San Juan County, Utah	14-20-0603-7171 June 11, 1962	. 4720628
20	E/2 NW/4 Sec. 4, T-41-S, R-24-E San Juan County, Utah	14-20-0603-7172 June 11, 1962	.0992482

Division of Oil, Gas and Mining PHONE CONVERSATION DOCUMENTATION FORM

	Well File [] Suspense WY Other (Return Date) OPERATOR CHANGE (API No.) (API No.) (To - Initials)					
1.	Date of Phone Call: = Time:9:30					
2.	DOGM Employee (name)L. CORDOVA (Initiated Call XXX) Talked to: NameGLEN COX (Initiated Call []) - Phone No. (915)688-2114 of (Company/Organization)MOBIL					
3.	Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT". (NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)					
4.	Highlights of Conversation: MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS. MEPNA-					
	PO DRAWER G					
	CORTEZ, CO 81321					
	(303)565-2212					
	*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATORED BY MEPNA, CURRENTLY REPORTED OUT OF DALLAS (MCELMO CREEK).					

	of Oil, Gas and Mining OR CHANGE HORKSHEET		<u>.</u>	Routing:	
	ll documentation received by the each listed item when completed.			2-DP3758-RIMA 3-VLC 4-RJEY	
	ge of Operator (well sold) gnation of Operator		on of Agent Name Change Only	5-IPOPE 6-PV	
The ope	erator of the well(s) liste	d below has changed	(EFFECTIVE DATE:	-93)	
TO (nev	w operator) (address) PO DRAWER G CORTEZ, CO 813 GLEN COX (915)6 phone (303)565 account no. N7	21 88-2114 -2212	PAT KON phone	TY 64 NBU 3004 TON, NM 87401	
Hell(s)) (attach additional page if need	ed): *RATHERFORD	UNIT (NAVAJO)		
Name:_ Name:_ Name:_ Name:_ Name:_	**SEE ATTACHED** API: API: API: API: API: API: API: API:	Entity: Entity: Entity: Entity: Entity: Entity: Entity:	SecTwpRng_ SecTwpRng_ SecTwpRng_ SecTwpRng_ SecTwpRng_	Lease Type: Lease Type: Lease Type: Lease Type: Lease Type:	
<u>Lec</u> 1.	ATOR CHANGE DOCUMENTATION 1. (Rule R615-8-10) Sundry or other <u>legal</u> documentation has been received from <u>former</u> operator (Attach to this form). (Reg. 8-20-93) (6/93 Prod. Ref. 8-16-93) 2. (Rule R615-8-10) Sundry or other <u>legal</u> documentation has been received from <u>new</u> operator (Attach to this form). (Reg. 8-31-93) (Rec. 9-14-93)				
₽/A 3.	The Department of Commerce operating any wells in Ut yes, show company file num	ah. Is company reg	if the new operator abo istered with the state?	ove is not currently (yes/no) If	
Lec 4.	(For Indian and Federal Hells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above.				
Λ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	15/ (10/10 = 10 10/			
<u>fec</u> 6.	Cardex file has been updat	ed for each well lis	ted above. (OEB wells lo-b-	13) (WIW'S 10-26-93)	
Lei 7.	Well file labels have been	updated for each we	ll listed above. (oé 6 web	15 10 6-93) (WINS 10-26-93	
<u>fec</u> 8.	Changes have been included for distribution to State	d on the monthly "Op Lands and the Tax Co	erator, Address, and Admission. <i>(10-6-43</i> 7	count Changes" memo	
<u>fec</u> 9.	A folder has been set up placed there for reference	for the Operator Cha during routing and	nge file, and a copy of processing of the origi	this page has been nal documents.	

PERATOR	CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A—r item is not applicable.
ENȚITY I	
((Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) (If entity assignments were changed, attach <u>copies</u> of Form 6, Entity Action Form).
	State Lands and the Tax Commission have been notified through normal procedures of entity changes.
30ND VEI	RIFICATION (Fee wells only)
	(Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. /	A copy of this form has been placed in the new and former operators' bond files.
_ 3. [The former operator has requested a release of liability from their bond (yes/no) Today's date 19 If yes, division response was made by letter dated 19
LEASE II	NTEREST OHNER NOTIFICATION RESPONSIBILITY
W-10 43	(Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated
FILMING	
	All attachments to this form have been microfilmed. Date:
FILING	
<u>Le</u> 1. 9	Copies of all attachments to this form have been filed in each well file.
<u>Le</u> 2.	The <u>original</u> of this form and the <u>original</u> attachments have been filed in the Operator Change file.
COMMENTS	S
	cole BIA/Bhn Approved 7-9-93.
	
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